ANNUAL REPORT

for the year
ending July 31, 1987

Department of Education

THE HONOURABLE ALAN R. ABRAHAM, C.D.
Lieutenant-Governor of Nova Scotia

Sir:

I beg to present herewith the report of the Department of Education for the year ending July 31, 1987.

I have the honour to be

Your obedient servant,

RONALD C. GIFFIN, Q.C.
Minister of Education

HONOURABLE RONALD C. GIFFIN, Q.C.
Minister of Education

Sir:

I have the honour to submit the annual report of the Department of Education for the year ending July 31, 1987.

I have the honour to be

Your obedient servant,

BLENIS J. NICHOLSON
Deputy Minister of Education

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DEPARTMENT OF EDUCATION: ADMINISTRATIVE STRUCTURE

The Department of Education is organized into the two main administrative areas described below, each headed by a Chief Director reporting to the Deputy Minister of Education. The Teachers' Pension Office, although not part of the department's administrative structure, receives support services from the department.

Education Programs

The Education Programs area includes the following divisions: Curriculum Development (English and French divisions), Inspection Services, the Nova Scotia Teachers College, Teacher Certification, Education Resource Services, and Publication and Reference.

The Curriculum Development divisions, which are responsible for elementary and secondary education programs, co-ordinate curriculum development, recommend appropriate instructional materials and inclusion in the authorized lists, and provide consultant services. These divisions assist in the planning and implementation of in-service programs and have consultants in a variety of subject areas. Curriculum Development (French Programs) also administers several language bursary and assistance programs funded by the Secretary of State. Curriculum Development (English) operates the department's correspondence study service.

The staff of Inspection Services consult with school boards, school administrative staff, and the general public; provide the Minister and departmental staff with information on the school systems in their inspectorates; serve regionally as interpreters of depa tmental policy and procedures; co-ordinate school system surveys; and work with the Nova Scotia Teachers Union and the Nova Scotia School Boards Association in the Teaching Effectiveness Program.

The Nova Scotia Teachers College provides a three-year teacher education program and also offers a variety of courses for teachers interested in furthering their professional education.

The Teacher Certification section supervises and maintains records on the registration and certification of teachers.

The Education Resource Services Program includes the Nova Scotia Museum, Education Media Services, and the Provincial Library. The Museum displays and interprets artifacts related to the natural, social, and

marine history of the province, operates a number of historic buildings throughout Nova Scotia, and provides financial and advisory support to local museums. Education Media Services provides schools with the resources of a media library, an audio-visual equipment repair service, a microcomputer resource centre, and various audio-visual productions, including educational television programming. The Provincial Library provides various services to the regional libraries of Nova Scotia and, in general, co-ordinates the library service of the province. The Provincial Library also provides assistance to schools through a Co-ordinator of School Libraries.

Publication and Reference publishes periodicals for teachers, consolidations of legislation, directories of schools, and various other bulletins related to education. This section also provides a general editing service for the department, answers inquiries from the public and the news media, and helps to arrange publicity for departmental events.

Finance and Budgeting

The Finance and Budgeting area includes the following: Financial Management, Personnel, Public Education Grants and Finance, School Planning and Conveyance, Research, Student Aid, and Assistance to Universities.

The Financial Management division co-ordinates the budget presentation of the department, controls the internal financial operations of the department, provides an internal mail service, and operates a bureau which supplies school boards with textbooks and other learning materials.

The Personnel section provides for the maintenance of departmental personnel records and administration of other personnel services.

Public Education Grants and Finance co-ordinates the provision of education grants to school boards; reviews school board budgets, revenues and expenditures to ensure compliance with legislation and regulations; and provides advisory services to school boards to promote sound and consistent financial management practices.

School Planning and Conveyance develops construction programs for all approved school capital construction projects; monitors school construction to ensure all mandatory requirements and departmental standards are adhered to in the planning of new school facilities; arranges for the funding of construction and monitoring to ensure debt payments are made; and monitors school bus purchasing and school

transportation systems to promote high standards of cost-efficiency, service and safety.

The Research division provides for collection and analysis of statistics on teachers, students, subjects taught and finances; operation of provincial student achievement testing; services related to GED examinations; maintenance and development of the department's centralized database; and advice on the development of departmental management information systems.

The Student Aid Office administers the Canada Student Loans and Nova Scotia Bursary programs for post-secondary students. Also at the post-secondary level, the department provides financial assistance to universities and other post-secondary institutions, and liaises with the Maritime Provinces Higher Education Commission on these matters.

EDUCATION PROGRAMS

EDUCATION PROGRAMS

CURRICULUM DEVELOPMENT

Curriculum Development, Implementation, and Maintenance

a) Several new programs were launched during the period covered in this report, including the grade 9 program, "Personal Development and Relationships". The provincial task force responsible for this program completed its work, including the compilation of the teacher's guide, the evaluation and selection of appropriate resources, and two-day in-service sessions for selected teams from each district board. Following the pilot stage, it is intended that this program be implemented over a period of time and become mandatory for all students in grades 7 to 9.

A second highlight of the past year was the launching of Maritime studies, the new grade 9 social studies course. *The Maritimes: Tradition, Challenge and Change*, the textbook to serve as the central resource for the course, was introduced to teachers in July 1987 after a three-year development period. Several resources have been provided to teachers, including a draft curriculum guide, an audio-visual resource catalogue and a set of overhead transparency masters. A three-day provincial in-service has been provided for all teachers. Follow-up sessions will help to ensure a smooth and effective implementation of Maritime studies.

A new, alternative junior high mathematics program with an emphasis on study skills was in the developmental phase during the past year. Draft guidelines have been developed and materials, including a core support textbook, have been evaluated and authorized for use. A major two-day in-service was conducted for 45 teachers representing 13 district boards to prepare them for an extensive field test of this program.

b) Curriculum Development was also involved in the preparation of several curriculum documents to support existing programs and courses. For example, the final drafts for three computer education guides were completed: *Elementary Guidelines, Junior High Guide*, and *Computer Related Studies 331 and 441*. The latter course was the focus of a three-day provincial in-service program for teachers of computer-related studies.

Several new or revised documents were prepared for guidance and career education. A provincial task force completed the first draft of *Guidance Guidelines*, a document intended for use at elementary, junior, and senior high levels. Following review by committees both internal and

external to the Department of Education, a revised draft will be prepared. *Career Education and Exploration* (grades 7 and 8) was produced and piloted in several schools across the province. In-service was provided for teachers and the materials were distributed to schools for implementation. *Careers Ahead,* a departmental publication for grade 9 students, was revised and distributed. Another major activity was the production of materials for use by schools during Canada Career Week and throughout the year in guidance and career education.

New health-related curriculum guidelines for AIDS education in grades 7 to 9 were developed during the past year. In-service was provided for district boards prior to the implementation of these resources in the 1987-88 school year. A committee is at work on the development of curriculum guidelines and the identification of resource materials for grades 10-12.

Several program guides were in the development or revision stages during the period covered by this report. These include curriculum guides for both elementary and junior high health education. The P-2 Task Force began an extensive revision of the overview document on integration, following its revision by a number of provincial administrators and teachers. The Data Processing Committee continued its work on the development of the DAP 341 outline, now nearing completion.

c) Curriculum Development staff continued to provide support to district boards in recently implemented programs or courses. For the elementary English language arts program, a three-day provincial in-service was held for curriculum personnel from each district board. This session was the third in a series of workshops on language arts for curriculum leaders and focussed on evaluation. Further support was given through additional in-services, upon request, for district boards, schools, and post-secondary institutions. Videotapes for professional development with respect to the language arts were developed in co-operation with Education Media Services.

Implementation of new mathematics courses for senior high continued. Approximately 100 teachers of MAT 432 and MAT 442 from across the province attended a three-day in-service program presented by the Senior High Mathematics Task Force in January 1987. This was the last in a series of provincial in-services to implement university preparatory mathematics programs for grades 11 and 12 (MAT 431/432 and MAT 441/442). The revision of teaching documents to support these mathematics courses was also completed.

Implementation of the elementary daily physical activity program continued in 1986-87. Curriculum Development gave assistance to district boards by conducting in-service for teachers in response to local requests.

d) Staff of Curriculum Development also assisted district boards in maintaining and strengthening existing programs by continuing to evaluate and field test learning materials for the authorized lists. This activity is an important one for all curriculum staff each year and serves to ensure that the most appropriate materials are made available in the province's schools. For example, new support materials for grades 1 and 2 mathematics were listed following provincial field tests. Among other new support materials were items for English language arts, social studies, business education, industrial arts, computer education, and adjusted programs.

e) The role of technology in support of education was a significant area of activity for Curriculum Development staff in 1986-87. The final distribution and accounting of the microcomputers, software, and hardware purchased through the $2,000,000 grant from the Offshore Development Fund were conducted. Approximately 1,100 workstations, complete with software, were distributed on a per capita basis.

The evaluation of computer software in many curriculum areas is an activity of increasing importance. The number of software titles available for purchase by schools through the Nova Scotia School Book Bureau grew from five to nineteen, including programs for industrial arts and for the development of problem-solving skills. A major report on software evaluation was produced and distributed in January 1987. Printed reports from the evaluation database were sent to all schools through district board offices.

Work continued on the integration of computer technology into the industrial arts program. For example, a variety of computer assisted drafting, computer assisted manufacturing, and computerized numerical control software programs are being used by many industrial arts teachers. They also use software programs which assist in the management of industrial arts programs from inventory records to student grades. A Technology Resource Book for Industrial Arts was compiled in 1986-87.

An accomplishment in 1986-87 which will influence all future curriculum development is the installation in the Curriculum Development office of four microcomputer workstations. Among other benefits, this equipment will enable Curriculum Development staff to produce type-set quality print materials.

Visitations by Curriculum Development Staff to District Boards

An important activity of Curriculum Development staff is the provision of support services to district boards through visitations, discussions with staff, local in-service assistance and mini-surveys in response to requests from district personnel. During 1986-87, all district boards in the provinces were visited by members of Curriculum Development. A district-initiated survey of the P-12 mathematics program in Yarmouth developed into a major co-operative effort between the Department of Education and district administration and teaching staff. This became a year-long project as problem areas were addressed through in-service and the provision of new support materials to help complete implementation of the provincial mathematics program. Curriculum Development provided additional support to Yarmouth during a district-wide in-service, with seven Curriculum Development staff conducting workshops.

A second example of support services is the review of the International Baccalaureate Program in Lunenburg District School Board conducted at the request of the school board. Eight members of Curriculum Development staff were involved in this project.

The Halifax District Survey provides a third example of support service to district boards. This was a major Department of Education priority in 1986-87 and involved most Curriculum Development staff.

A fourth example is the co-operation between district boards and Curriculum Development with respect to alternative programs. These programs, including adjusted, intermediate industrial, and work experience programs, were reviewed with school boards. The Curriculum Development Division approved local alternative program pilots and assisted school boards with the development of course outlines.

Nova Scotia Tests of High School Achievement

During the 1986-87 school year, the Nova Scotia High School Achievement Tests for grades 9 and 12 were reviewed and revised by Curriculum Development staff to be more consistent with current provincial programs.

Correspondence Studies

In 1986-87, 2,248 students registered in public school correspondence study courses and 154 students registered in technical correspondence study courses. Revision began on five correspondence study courses

and the development of five additional correspondence study courses was initiated.

Co-operation with Other Organizations and Government Departments

Two members of Curriculum Development represented the Department of Education on the Professional Development Assistance Fund, a joint endeavor with the Nova Scotia Teachers Union. Three Curriculum Development staff are members of the joint committee on Human Rights and Education. Curriculum Development staff also served on committees in co-operation with several other government departments including the Attorney General's Department (Correctional Services), the Department of Lands and Forests (Project WILD), and the Departments of Social Services, Health, and Vocational and Technical Training.

CURRICULUM DEVELOPMENT (FRENCH PROGRAMS)

Curriculum Development, Implementation and Maintenance

During the period covered in this report, a new position of Director, Curriculum Development, French Programs, was established and an appointment made in October 1986.

A new consultant for the French Core Program began the revision of the grade 4-6 guidelines with a task force and a first draft was produced. The task force dealing with the grade P-6 French language arts guidelines continued its work and prepared a draft which is to be published in the spring of 1988.

Parallel to the preparation of these guidelines, the field testing of language arts series took place across the province. Visits by curriculum staff to projects were made, evaluation reports compiled and new authorized materials were listed in June 1987.

In the meantime, work continued on the Maritime Studies French textbook and the teachers guide. The field testing of the program also took place during this time, with a view to implementing the program in September 1987.

A first meeting of a task force to draw up guidelines for the social studies 7-9 program took place in May 1987.

The consultant from the French section in charge of guidance co-ordinated work on the first draft of *Guidance Guidelines*, a document

intended for elementary, junior and senior high levels. *Career Education and Exploration* (grades 7 and 8) was produced and piloted in several schools across the province. *Careers Ahead*, in its English and French editions, was revised and distributed to grade 9 students. Materials for use by schools during Canada Career Week and throughout the year in guidance and career education were produced in both English and French.

Upon request of district boards and schools, staff continued to provide support with the implementation of programs, especially French language arts, immersion, and extended core.

Staff also assisted district boards in maintaining and strengthening existing programs by evaluating learning materials. New materials were listed for French language arts at all levels in line with new programs. Support materials for social studies, math and guidance were also listed.

As part of the purchases made from the $2,000,000 Offshore Development Fund grant, 21 computer workstations for use in French programs were distributed to schools across the province.

In co-operation with Education Media Services, staff evaluated computer software in French curriculum areas and reviewed films and videocassettes. The results were compiled in the evaluation database.

Visitations by Curriculum Development Staff to District Boards

During the period covered by this report all district boards where French first language and immersion programs are taught were visited by staff members.

Consultants from the French section contributed to the Halifax District School Board Survey in reviewing immersion and French core programs.

Co-operation with Other Organizations and Government Departments

A member of Curriculum Development (French Programs) represents the Department of Education on the Professional Development Assistance Fund Committee, established under the provincial agreement with the Nova Scotia Teachers Union.

Staff members also represent the Department of Education on the Nova Scotia Council for Multiculturalism in Education, and on the

administrative council of ACELF (Association canadienne d'education de langue francaise) which is a Canadian association comparable to the Canadian Education Association dealing with education in French across Canada.

The French core consultant participates in the French core study dealing with other provinces on issues pertaining to the teaching of French as a second language.

Staff members administer various language bursary programs for students and teachers across the province and administer special projects and language monitor programs.

Staff members work on joint projects with other Maritime Provinces dealing with different subject areas under the aegis of the Council of Maritime Premiers. Such projects include supplementary materials for Maritime studies, French language arts and special education programs, as well as comprehension tests.

INSPECTION SERVICES

There are 10 inspectors and 11 secretaries in field offices throughout the province and a central administration office with a director, an assistant director and two secretaries. A reorganization during the year incorporated the Queens District School Board Inspectorate into the new Lunenburg-Queens Inspectoral Division and the Shelburne County District School Board into the new Clare-Argyle, Yarmouth and Shelburne Inspectoral Division. Three new inspectors were appointed during the year.

Inspection Services continued its work on two major evaluation initiatives of the department.

Through the leadership of the assistant director, the Teaching Effectiveness Program — a co-operative venture of the department, the Nova Scotia Teachers Union and the Nova Scotia School Boards Association — continues to grow. To date, 17 of the 22 school boards are involved in the program, and over 75 percent of the province's principals have participated in workshops and in-services. In addition, nine boards have adopted or drafted policies on formative support and supervision.

A school system survey report for the Cape Breton District School Board was delivered, the on-site visits for the Halifax District School Board Survey were completed, the planning for the Cumberland Review was finished, and preparations for the Dartmouth Review were begun.

Smaller reviews in the Digby, Annapolis and Cumberland District School Boards were completed. In addition, the Shelburne Youth Centre was reviewed at the request of the Department of Social Services. Survey teams included personnel from other divisions of the Department of Education and teachers and administrators from various school boards.

The inspectors consulted with, and advised, school boards and their administrators on a variety of matters related to the improvement of instruction. They attended all board meetings and many board committee meetings and met regularly with senior staff. During these meetings each inspector acted as a resource person, communicated departmental policies, and helped boards develop policies and procedures consistent with current directions of the Department of Education. Through these meetings and contact with schools and the public, inspectors were able to advise the Minister on actual or potential matters of concern and other issues such as capital construction requests.

Inspectors monitored private schools and individual cases of home study, ensured that schools, school boards and teachers operated within the statutory guidelines of the province, and audited data submitted by school boards for formula funding and statistical purposes. Inspectors are also responsible for approving all board-level in-services and monitoring all pilot programs. In addition, assistance with the interpretation of the provincial achievement testing program was provided at the board level.

TEACHER CERTIFICATION

Teacher Certification now provides much of the data entry service for the new teacher module, a computer database system. Replacing the former manual system, the computer database is providing the section with day-to-day support in meeting the teacher certification information needs of the department and various other users.

Regular certificates, specialist certificates, and permits were issued as follows:

TC 8	46
TC 7	129
TC 6	284
TC 5	1391
TC 4	301
TC 3	16
TC 2	4
TC 1	1

Under Regulation 48	16
VTC	42
T Permits	3
VT Permits	21
Total	2254

In addition, the following data apply to the services provided by the Teacher Certification section:

Requests answered for verification of teacher certification and teaching service	385
Statements of professional standing provided	298
Detailed service statements provided	554
Requests for approval of courses for upgrading	400
Number of programs approved for upgrading	222

July 31, 1987 marked the end of the second full year of computerized record keeping within the Teacher Certification section. As more records are added to the system, more requests for information are being received from both teachers and school boards.

NOVA SCOTIA TEACHERS COLLEGE

The Nova Scotia Teachers College offers three-year teacher education programs in five categories: Early Elementary, Intermediate Elementary, Junior High, Physical Education, and Industrial Arts/Technology Education. Each program has its own quota of new students, and the total annual quota for all programs is 120. Total enrolment in full-time teacher education programs was 324, while 315 students enrolled in evening extension courses. The 1986 summer school had an enrolment of 460, which includes public school teachers and those enrolled in courses for vocational school teaching and the Elderhostel program.

Also associated with the College is the Child Development Services Program, a two-year program for those training for pre-school and teacher-aide work, drawing its enrolment from all four Atlantic Provinces. Two government departments sponsor this program: Social Services and Education. There were 240 students enrolled in the regular program,

300 enrolled in child development extension programs, and 167 enrolled in summer school. The child development services extension and summer school programs are operated primarily at the Froebel Institute in Princeport.

The Department of Vocational and Technical Training operates a job readiness training program on the College campus, with three sections of about 20 students each.

Faculty and staff for the Teacher Education Program (who also in varying degrees serve the other programs) number 85 full-time, plus a number of casual and part-time employees — 29 are full-time teaching faculty, 11 are part-time teaching, part-time administration faculty, and 3 are full-time in administration. Faculty for continuing education are selected NSTC faculty members, plus guest faculty from outside the College. Staff of the College include nine stenographers and secretaries, seven clerks, one Manager — Administrative Services. three librarians, eight janitors, five maintenance staff, five housekeepers, one training aides machine operator, one nurse, one co-ordinator of residence, and one supervisor of residence.

Staff of the Child Development Program, other than the director, are not employees of the College.

During the year under review, the College made a concerted effort to enhance its connection with schools and teachers to ensure that the teaching profession has an appropriate influence on teacher education programs. An executive assistant of the Nova Scotia Teachers Union joined the College's Program Council as a voting member, and each program has appointed one or two teachers who act as voting members, or act in an advisory capacity to the program. In addition, the Student Teaching Department continues to work closely with school personnel, as does the Continuing Education Department. The College has increased the number of uses of its facilities given free of charge to educational groups. While this has proven beneficial to teachers, it has also proven beneficial to students and instructors at the College, as they are then able to attend workshops and lectures free of charge.

Two areas of program have received special attention during the past year, and this will continue: education in the French language and culture, and computers in education. Six teacher education students benefited greatly from a French immersion semester at l'Univesité Ste-Anne; three will take part in a similar program next year. With respect to computer education, every student must pass a competency requirement in the use

of the computer in education in order to graduate. In addition, elective courses are offered for all students, and computers are part of the Industrial Arts/Technology Education drafting and design courses.

One hundred and sixty-seven teachers have successfully completed their B.Ed. degrees under the university/Nova Scotia Teachers College agreement. This figure includes those who graduated from Teachers College some time ago, and who subsequently attained the equivalent to the Associate in Education diploma, now a requirement for the joint B.Ed. degree. A study of the marks obtained by those who attained degree status indicates that they perform in a highly creditable way: 75 percent of them achieved an A or B rating.

During the year under review, a Nova Scotia Educational Trust Fund was established to hold funds donated to the College. Interest from this fund will be reserved for scholarships and professional development.

The College held a highly successful Human Rights Awareness Day, sponsored by the Human Rights Commission. All students and faculty from the College's teacher education programs, and from the Child Development Services and Job Readiness Training programs, took part.

The Headstart Program for pre-school children, the Outdoor Field Study Centre at Manganese Mines, and the Truro Centennial Pool continue to be very popular and useful to the general public, and beneficial ancillary programs for the College. The Outdoor Field Study Centre was used by 58 groups during the year. Four government departments and a government commission made use of College facilities during the year.

The College has enjoyed excellent relations with provincial universities and with the province's schools. In spite of the shortage of full-time teaching positions, the teacher education program has twice the number of applicants it can admit, and the students who are admitted to the program are enthusiastic, committed and conscientious.

The 1986 survey of graduates, conducted by the Student Services Department, showed that 18 students obtained teaching positions (4 part-time), 30 attended university, 17 were employed in jobs other than teaching, 3 were substitute-teaching and one was unemployed. Twenty-two did not reply to the questionnaire.

EDUCATION RESOURCE SERVICES

Nova Scotia Museum Complex

The Museum's collection continued to grow, with approximately half of the new acquisitions being donations. A significant donation came from the Canadian Antique Dealers Association which chose the Nova Scotia Museum as the recipient of its annual donation to a Canadian province. The gift was a collection of 18th century ceramics representative of the type of wares obtained from the archaeological salvage operation at the Central Trust site in Halifax, excavated in 1984. A small, important collection of 2300-year-old stone artifacts, of exotic material, deposited with human burials at the White's Lake site was added to the archaeology collection after this year's field season. A large collection of sail plans from a former sailmaker's company in Mahone Bay and a model of the *True North* were key additions to the marine collection. A Plymouth locomotive, a steam shovel and stone saw from the Wallace Quarries, remnants of the new France, Digby County logging railway, remnants of a Defiance truck, a Cupola blast furnace for iron production, electromelt steel making equipment from Amherst, and road building equipment — all of which will be housed in the new Museum of Industry and Transportation — were also acquired.

Research by staff and research associates continued in a variety of areas, although program demands and collection maintenance allow less and less time to be allocated to research. Site studies were carried out at several locations, including those proposed as ecological reserves.

The Nova Scotia Museum and Maritime Museum of the Atlantic between them held 41 temporary exhibits over the year to mark special events (e.g., the 200th Anniversary of the birth of Samuel Cunard, and John Hughes' participation in the British Oxygen Corporation Challenge); in co-operation with local societies (e.g., the Orchid Show); or to show the results of research (e.g., Naturally Novascotian: Natural Research at the Nova Scotia Museum). Exhibits from other institutions were also shown (e.g., Chinese Jade: Stone for the Emperors, and Survival in Northern Climates). In addition, the Nova Scotia Museum, through funding from the National Museums of Canada, circulated 19 exhibits throughout the province that had 40 showings in 14 different locations. Ten of these were produced by the Nova Scotia Museum; 9 were produced elsewhere.

Other exhibit work included the hiring of a planner, with funding from the National Museums of Canada, to assist in developing a travelling exhibition on Sable Island. It is intended that this will have national

circulation. The O'Halloran Collection, the most elaborate Micmac chief's costume surviving from the 19th century, was transferred from the Museum of Civilization in Ottawa, on indefinite loan and was installed in the Nova Scotia Museum Exhibit Gallery.

Responding to public inquiries and providing identifications of artifacs and specimens continued to be a high priority and an extremely time-consuming activity. Questioners include amateur collectors, school children, researchers and other government departments. As well, public programs were given in all of the 23 locations of the Nova Scotia Museum Complex and for universities, historical societies, other museums, natural history groups, etc. Highlights included the Fifth Anniversary Open House at the Maritime Museum of the Atlantic, the Children's Astronomy Summer Program, and the Climate Lecture Series.

School loans were distributed to 15 centres across the province, with borrowing up by 18 percent. The most popular subjects were Micmacs, pioneers and fossils.

The five largest sites in the Nova Scotia Museum Complex continued tc have significant visitation by school students. Overall, 47,000 visits were made by students (this does not include students who attend these museums with their families) despite a drop in attendance at the Nova Scotia Museum due to the severe winter of 1986-87. Ross Farm has the highest percentage of school visits to total visitor attendance: 17 percent of all visitors to Ross Farm came in organized school classes.

In Sherbrooke Village, the Doctor's Office was officially opened on September 21, 1986. This project was initiated by the Medical Society of Nova Scotia and it was through the generosity of doctors across the province that the furnishings and medical instruments of the 1900-1910 period were acquired and installed in Renova Cottage.

Operating grants to 49 local museums totalling $572,425 were distributed. In addition, a new museum assistance policy and a new grant system were approved by the Board of Governors.

Preliminary architectural planning was completed and site preparation for the building of the Nova Scotia Museum of Industry and Transportation was begun. Archaeological investigation of the site revealed the presence of workers' housing from one of Nova Scotia's earliest foundries and the engine shed of the *Samson.* A federal employment program allowed the hiring of four people to begin work on the restoration of the Tibbetts' collection of locomotives.

In-house publications included the bimonthly *News and Views*, the annual *Learning Resources Catalogue*, and four new books: *Birds of Nova Scotia, Sawpower, Natural History Highway Map* and *First Impressions*. The first two of these are already into second printing, making them best sellers. Two issues of *The Occasional* were produced, and several curatorial reports, articles and papers were contributed to various publications.

Because of the decentralized nature of the Nova Scotia Museum Complex, which is housed in approximately 125 buildings and includes three vessels and several locomotives, a major part of the program each year consists of the maintenance of these capital assets. Highlights included the extensive restoration of the CSS *Acadia*, and the replacement and reconstruction of the flume and waterwheel at the Wile Carding Mill.

Volunteers continued to provide an essential element of the operation of the Nova Scotia Museum Complex. It is estimated that about 4,000 person-hours were donated by volunteers in one area alone, that is, the Nova Scotia Museum class program. Throughout the Complex, there are over 300 active volunteers. Another important source of personnel assistance is the Provincial Employment Programs which across the province make it possible for museums to provide sufficient guide staff and maintain general operations.

Education Media Services

Media Library

It is now clear that the increase in the EMS video holdings and the concomitant increase in the use of this format by schools have begun to have a marked effect on the demands for the services of the 16 mm film library. For the first time film bookings have begun to decline. This trend was undoubtedly encouraged by the provision of access to video versions of the most popular film titles. Each time this option for a film is made available, a license agreement is required and a duplication rights fee must be paid.

During the year, a concentrated effort was made to develop the library's holdings to support the Maritime Studies course. The catalogue which was developed for this course included some 200 titles.

The use of the Atlantic Satellite Service for transmitting programs for schools to duplicate was tried very successfully during May and June. All

schools in the province were able to duplicate any of 56 programs. The system was also used for a province-wide preview service during December and January. Evaluation forms and schedules were sent to all schools.

The CBC transmission service was used for an hour each day for 30 weeks of the school year. In total, 30 series of programs were aired in support of the elementary curriculum.

A significant highlight for the library, near the end of the year under review, was the approval of a new organizational plan and the appointment of a new co-ordinator.

Media Production

In addition to the day-to-day work of production staff done on behalf of the Nova Scotia Museum, libraries, Curriculum Development, and the Department of Vocational and Technical Training, the following major projects were completed:
Off the Road — A co-production with the Land Resources Development Committee of Voluntary Planning (Department of Development), designed to promote discussion among junior high school students of safe, considerate use of all-terrain vehicles.

Teenage Pregnancy: A Panel Discussion — A co-production with the Home of the Guardian Angel, featuring a group of single parents and a class of students from Sackville High School.

Teaching Effectiveness In-Service Tapes — A series of four videotapes of Francophone classrooms across the province for use in Francophone teaching effectiveness in-service for school administrators.

NSIT Transfers — The EMS studio was asked by Nova Scotia Institute of Technology Motor Vehicle Apprenticeship Training to transfer their entire collection of audio-visual materials (more than 80 filmstrips, films and videotapes) to VHS tape. Since much of the material was severely damaged, this project became a major production effort in its own right, involving the taping of new sound and visuals in many cases.

Municipal Affairs Assessment Video — EMS recorded and mixed a new soundtrack for a videotape acquired by Municipal Affairs in Ontario, then re-edited the whole into a Nova Scotian version for use in public education programs.

NSIT New Wing Videos — Two productions were completed in this period. The first, *The Cutting Edge*, chronicles the development and construction of the automated manufacturing technology facility at the Nova Scotia Institute of Technology, from the first sod turning to its completion. The second, *AMTC: Partnership For Progress*, outlines the purpose of the facility, its capabilities and its value to the Nova Scotia economy. The latter production was part of opening ceremonies at NSIT in May 1987.

Framing Interviews for Career Week Videos — EMS produced a series of "packaging interviews" featuring Liz Crocker to introduce special broadcasts of career-related video programs broadcast during Career Week over the Atlantic Satellite Network.

Department of Health Puppet Shows — EMS produced two mixed soundtracks for use by Department of Health staff during their visits to elementary schools across the province to promote proper dental hygiene.

Nova Scotia College of Geographic Sciences Recruiting Video — EMS produced a studio packaging and videotape transfer of a slide/tape presentation by graduating students of NSCOGS. The finished tape is used as a recruiting tool by NSCOGS in high schools across the province.

Nova Scotia Museum/Department of Fisheries Video: First, Hatch Your Trout — This co-production illustrates the operation of the Fraser Mills Fish Hatchery, and forms a focal point of a forthcoming resource list on freshwater fish developed by Fisheries and distributed by the Nova Scotia Museum.

Awards

The EMS video, *Your Municipal Government*, won an Atlantic Film and Video Award of Merit for animation in the 1986 competition. EMS staffer, Ray Whitley, was the recipient in 1987 of a Commonwealth Relations Trust Bursary to study Educational Media, specifically television, in the United Kingdom.

Training and Consultation

This unit is operated jointly with Curriculum Development and the Curriculum Consultant involved is an integral part of both divisions.

The Microcomputer Demonstration Centre has been in almost constant use throughout the year. A large number of teachers and administrators made use of these facilities either as a part of a workshop or on an individual basis. Several teachers in education classes regularly visit the centre.

Reports are regularly distributed to school boards regarding software evaluation, new product information, and compatibility testing on computer equipment. Teacher training materials are prepared to introduce new software.

The consultant played a major role in developing the Department's EDP Plan as well as in assisting a number of divisions with the selection and use of hardware and software.

On-line database are accessed in response to telephone requests for information on available software and special education.

Provincial Library

The Report of the Department of Education Committee on Regional Library Funding was submitted to the Minister in February 1987. This report contained five recommendations for the improvement of regional library funding, including a three-year phase-in of a formula for operating funding which would provide more equalized funding for regional library service. The provision of capital grants for construction or renovation of branch libraries and for related furniture, equipment and library materials was also recommended.

Legislation introduced by the Minister of Education and passed by the House of Assembly in 1987, revised the *Libraries Act,* effective January 1, 1988, to enable implementation of all five of the report's recommendations. The Province's share of regional library 1987 operating budgets was calculated on the basis of these recommendations.

New branch libraries were opened in River John and Guysborough, bringing the number of branch libraries in the province to 68.

A total of 15,233 new titles were added to the province-wide microfiche catalogue of regional library collections, while 56,948 volumes were processed and shipped to regional libraries.

Other activities of the Provincial Library included participation, along with 734 other libraries, in the *National Study on Photocopying in Canadian Libraries;* assistance provided throughout the year to the staff

of the Black Cultural Centre in cataloguing and organizing their library resource centre; and participation in the Department of Education Survey of the Halifax District School Board. The Provincial Library was also host to several workshops, including *a Special Workshop on the Canadian Union Catalogue of Library Materials for the Handicapped.* Reports were presented by Provincial Library staff at the annual conferences of the Nova Scotia School Library Association, the Nova Scotia Library Association and the International Association of School Librarianship (Reykjavik, Iceland).

PUBLICATION AND REFERENCE

Publication and Reference is responsible for answering general telephone and written inquiries from students, teachers, parents, the news media, other education departments or institutions, and the general public.

Departmental publications produced by the section included the directories of schools, the *Journal of Education,* and the *Education Nova Scotia* bulletin, containing official notices, articles on departmental policies, and miscellaneous information for teachers.

Assistance was provided by the Publication and Reference section to other sections of the department in the production of curriculum documents and other miscellaneous publications.

FINANCE AND BUDGETING

FINANCE AND BUDGETING

RESEARCH

The Research section collects, processes and reports information on enrolments, teachers, subjects, finance and student achievement in the public school system of Nova Scotia. To perform this service, Research operates and closely maintains the department's centralized database system. The system is continually reviewed to ensure that it keeps pace with administrative and information changes.

The major priority for the Research section is to increase the department's analytical capability so that information, whether concerning students, finances, teachers or student achievement, will be more useful in decision making. At this time, the optimum use of computer capacity for this purpose is being given very high priority.

Operation of the Nova Scotia Achievement Tests at Level 9 and 12 continued over the past year, with revisions made in reporting to allow a wider use of the data and to assist as much as possible with curriculum development, both at the local and provincial levels. A linking study to compare results of the same groups of students over time between Levels 9 and 12 has been carried out, and the results will be distributed and discussed with the school boards in the fall of 1987.

Preliminary work has begun on a level 6 achievement test, which will provide indications of the strength and weaknesses of students earlier in their school careers. The introduction of this new level of testing will mark a major milestone in the provincial testing program, allowing a continuity of testing results to assist with the overalll evaluation of programs.

SCHOOL PLANNING AND CONVEYANCE

School Planning

Seventeen school capital projects were approved during the year August 1, 1986 to July 31, 1987, with a total value of $55,004,000.

Date	School Board	Project
9/ 9/86	Halifax County-Bedford	Beaverbank Elementary School
7/10/86	Guysborough District	Mulgrave Memorial Addition and Alterations
7/10/86	Guysborough District	St. Mary's Rural High School

21/10/86	Colchester-East Hants	Princess Margaret Rose Addition and Alterations
12/11/86	Colchester-East Hants	East Court Road Addition and Alterations
12/11/86	Colchester-East Hants	Valley Elementary Addition and Alterations
13/ 1/87	Halifax County-Bedford	Millwood Elementary School
17/ 3/87	Cumberland District	Amherst Junior High School
17/ 3/87	Queens District	South Queens High School
14/ 4/87	Halifax County-Bedford	Millwood High School
14/ 4/87	Digby District	Islands Consolidated Addition and Alterations
22/ 4/87	Kings County District	New Minas Elementary — Junior High School
5/ 5/87	Kings County District	West Kings District High Window Replacement
9/ 6/87	Colchester-East Hants	Great Village Elementary Addition
9/ 6/87	Pictou District	Chelsea Elementary School
9/ 6/87	Annapolis District	Bridgetown Regional High Alterations
23/ 6/87	Pictou District	A.G. Baillie Memorial Addition and Alterations

Ten projects were completed during 1986-87. One project was a new elementary school; one was a new high school; four were additions and alterations to existing elementary schools; three were additions and alterations to existing high schools; and one involved an addition and alterations to a primary to grade twelve school.

In total, the projects created the following additional instructional areas: 28 classrooms, 19 specialist areas, 3 special education classrooms, 3 libraries, and 8 gymnasiums.

The Department of Government Services carried out all planning and construction-related activities on the approved projects for the Department of Education on behalf of the school boards.

Fourteen emergency projects, with an estimated cost of $1,145,619, were approved in 1986-87, and ten asbestos abatement projects, with an estimated cost of $1,250,380, were carried out during the period.

Staff also participated in school system surveys conducted by the Division of Inspection Services.

Pupil Transportation

Staff continued to be involved in conducting comprehensive conveyance

system studies for school boards in an effort to improve the efficiency of school conveyance operations.

Staff monitored two computerized school bus routing pilot projects with selected school boards in an effort to measure the advantages to school boards of adopting such systems. Both projects are in the final stages of completion and concluding assessments will be done.

Staff participated in the Nova Scotia Safety Council Conference, and in the 17th Annual Pupil Transportation Conference held in Dartmouth. The Dr. H.M. Nason Achievement Award was presented to the Hants West District School Board. The second place award was presented to the Halifax County-Bedford District School Board, on behalf of the Department of Education, the Department of Transportation, and the Board of Commissioners of Public Utilities. Staff also participated in the selection of the Nova Scotia School Bus Contractors Achievement Trophy, recognizing the most efficient private school bus contractor in the province. The 1986 award was presented to Perry Rand Limited, a contractor with the Kings County District School Board.

Pupil Transportation participated in school system surveys conducted by the Inspection Services division, and was involved in the follow-up consultation with school boards.

Other activities included contributions to in-service training sessions conducted by school boards for conveyance staff; participation in the development of a proposed school bus drivers course; work with the Atlantic Provinces Special Education Authority on selection of conveyance for handicapped students; participation on a committee originated by the Nova Scotia School Boards Association to study the feasibility of bulk purchases of school bus bodies and chassis; and participation in a group assigned to study co-operation in student transportation among the school boards in the Halifax-Dartmouth metropolitan area.

PUBLIC EDUCATION GRANTS AND FINANCE

During the strategic planning exercise undertaken in late 1986, the department identified the need to enhance its leadership role in improving school board financial management and ensuring that public funds for education are used as effectively as possible. At the end of the year under review, plans were being made for strengthening the Public Education Grants and Finance division to enable it to assume this role.

The division is responsible for distributing global, non-global and non-formula grants in accordance with government regulations and policies. These grants accounted for approximately 82 percent of the department's ordinary expenditures in the government's 1986-87 fiscal year.

For the year ending July 31, 1987, the division's auditors performed routine compliance audits on non-global grants to ensure adherence to the regulations and policies under which such grants were disbursed.

The division is also responsible for collecting financial information from district school boards. This information is maintained on the department's main computer system and integrated with other information in the department's data base to provide comprehensive financial data for review, analysis and decision making in funding and other policy areas.

For the calendar years 1987 and 1986, provincial grants to district school boards were as follows: (See Tables and Charts section for further details.)

Global	**1987 (Budget)**	**1986 Budget**
General Formula	$ 345,538,529	$ 338,593,480
Supplementary	8,983,000	—
Property Service	62,796,900	60,023,347
Transportation	36,592,389	33,198,822
	$ 453,909,818	$ 431,815,649
Non-Global		
Adult Education	$ 2,297,292	$ 2,385,179
Special Education	30,361,910	28,694,673
Driver Education	591,119	533,896
Summer School	952,501	1,130,394
Board of Pupils	257,490	211,195
Capital Equipment/ Repairs/Renovations	7,858,836	6,496,434
	$ 42,319,148	$ 39,451,771
	$ 496,228,966	$ 471,267,420

Aside from revisions to the actual funding rates, several changes were also made to the funding arrangements. To make the formulas less complicated, easier to understand, consistent and free from any subjective determination of weighting factors, the weighting factors for small and rural school boards were discontinued. A new approach was adopted which involved the provision of cost-shared, supplementary grants from the province and municipal units. The supplementary grants became a part of global funding and were available to all district school boards for which expenditure projections indicated a requirement for additional contributions. The cost sharing percentage was related to municipal

ability-to-pay per student unit, with the provision that if the municipal units supporting a district board reduced their share of the supplementary grant, the provincial share would be reduced proportionately.

A new transportation formula was implemented in 1987. It comprises three parts: (a) an operating grant which is 100 percent of projected operating expenses; (b) a capital bus purchase grant which is a set amount for each approved bus used for regular transportation (including approved spare buses); and (c) an historical bus debt service grant which is the amount of debt service costs for bus debt as of September 30, 1982, reduced by 25 percent of the capital bus purchase grant.

The "Family of Five" was also re-established in 1987. These non-global grants to school boards are provided for special education, driver education, adult education, summer school and board of pupils. Grants are the lesser of approved expenditures in each category or the maximum available under a specified formula.

Financial support to school boards also included a per-pupil credit allocation at the Nova Scotia School Book Bureau, grants for emergency capital purposes, and grants to cover capital debt repayment costs on funded debt for approved capital projects.

FINANCIAL MANAGEMENT

The Financial Management Section is responsible for controlling the internal financial operations of the department and co-ordinating the preparation of the department's budget presentation.

This section also operates the Nova Scotia School Book Bureau, which is the storage and distribution centre for the texts an other learning materials prescribed for use in the public schools of Nova Scotia. Further information describing the bureau's operations is given in the statistical table section of this report.

UNIVERSITIES AND COLLEGES

Unrestricted operating grants to universities and colleges, including the grant to the Atlantic Veterinary College, totalled $167,583,640 in the 1986-87 fiscal year, an increase of $4,855,938 over similar grants of $162,727,702 provided in 1985-86. Allocation of these grants among the various institutions is shown in the statistical table section of this report. In addition, restricted grants of $3,159,114, an increase of $1,623,664 over similar grants paid in 1985-86, were made to assist the institutions with

equipment purchases and building renovations and alterations. Capital debt charges grant of $8,262,917 were also provided on behalf of the universities to offset principal and interest payments due the province on outstanding capital loans.

Five new capital loans, totalling $2,155,000 were approved during 1986-87. Loans to Dalhousie University enabled that institution to carry out major renovations to the former Public Archives Building to provide appropriate facilities for the Department of Mathematics, Statistics and Computer Science, to initiate the first phase of renovations to the Chemistry Building, and to provide additional residence accommodations for female students. Loans were also approved for the University of King's College, to assist in expanding residence facilities for female students, and to the University College of Cape Breton for an expansion of their sewage system.

During the 1986-87 fiscal year, the province provided capital grants of $2,038,946 to the Maritime Forest Ranger School and $6,249,176 for the Atlantic Veterinary College. These amounts were Nova Scotia's share of construction costs incurred during the year for these regionally-funded projects.

During the year, approval was given by the Governor in Council to establish two new degree programs at the University College of Cape Breton. The University College now offers a Bachelor of Science degree, with majors in mathematics, psychology and biology, as well as a Bachelor of Environmental Technology degree. The latter program is the first to be offered in the Maritime Provinces.

Total enrolments in universities and colleges in Nova Scotia increased marginally in 1986-87 as a result of continued growth in the number of students pursuing their studies on a part-time basis. Comparative statistics for full-time enrolments and the full-time equivalent of part-time enrolments are as follows:

	1986-87	**1985-86**
Full-time enrolments		
Degree	23,688	23,664
Technical	900	959
	24,588	24,623
Full-time equivalent of part-time enrolments	3,733	3,628
Total	28,321	28,251

The differential fee for foreign students was increased to $1,500 in this fiscal year, compared to $1,435 in 1985-86, for students who were enrolled in the system at September 1, 1985, while the fee remained unchanged at $1,700 for students who entered the system after that date. The number of full-time equivalent foreign students in Nova Scotia universities decreased to 1,258 in 1986-87 compared to 1,411 the previous year.

STUDENT AID

The Student Aid section of the Department of Education administers the Nova Scotia Bursary Program and, on behalf of the Government of Canada, the Canada Student Loans Program. The objective of these programs is to provide financial assistance, in the form of provincial bursaries and federally-guaranteed loans, to eligible post-secondary students to ensure that all qualified students have the opportunity to meet their educational potential.

During the 1986-87 academic year, the maximum Canada Student Loan was $105 per week of study, and the maximum Nova Scotia bursary was $1,700. Maximum financial assistance available to a student enrolled in most university undergraduate programs in the 1986-87 academic year was $5,270, of which $3,570 was in the form of a federally-guaranteed Canada Student Loan and the remaining $1,700 was a Province of Nova Scotia bursary. This remained unchanged from 1985-86. Students in programs longer than the normal 34-week university undergraduate program were eligible to receive additional aid under the Canada Student Loans Program at the maximum rate of $105 for every week of study.

The 1986-87 academic year was the second year in which student aid applications were processed through the computerized system. The initial difficulties encountered in changing from a manual to a computerized system in 1985-86 were resolved and significant reductions in the time required to process applications were realized.

Further information on the Student Aid program is included in the statistical table section of this report.

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SUMMARY OF STATISTICS
1986-87

	1986-87	Increase (Decrease) from 1985-86
School Boards (1986-87 Academic Year)[1]		
Number of Boards, September 30	22	
Number of Schools, September 30	541	(13)
Teachers, September 30	10,664	(87)
Pupils, September 30	170,868	(1,746)
Elementary, (P-6, plus Special Education)	88,545	(1,191)
Junior High (7-9, plus Special Education)	43,060	(1,435)
Senior High (10-12, plus Business Education, Vocational and Special Education)	39,263	880
Pupil/Teacher Ratio (Full-Time Equivalency)	16.4	—
Average Class Size	22.3	(1.1)
Expenditures on Public School Education (1986 Calendar Year)		
Municipal Contribution	$102,994,432	$ 6,070,427
Other Board Revenues	24,197,016	1,511,363
Provincial Grants (Operating & capital)	501,952,315	11,104,150
Total Expenditure[2]	$629,143,763	$18,685,940
Per Capita Expenditure[3]	721.	22.
Per Pupil Expenditure	3,682	145
Percentage of Provincial grant to Total School Board Expenditure	79.8%	(.5%)

[1]Does not include students in the 11 regional vocational schools operated by the Department of Vocational and Technical Training.
[2]Final expenditures by school boards as reported in school board financial statements.
[3]Based on estimated total population of Nova Scotia.

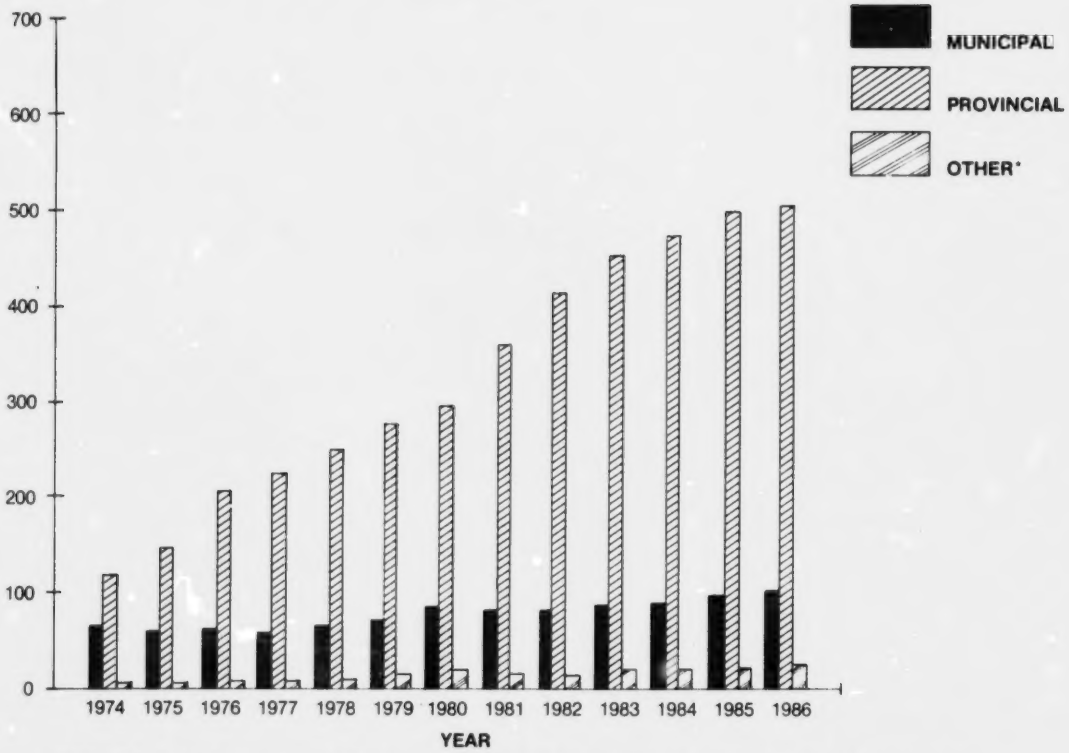
SUMMARY OF GRANTS TO SCHOOL BOARDS AND CALCULATION OF COST PER PUPIL 1978-1986

Calendar Year	Number Teachers Sept. 30	Enrolment Sept. 30	Provincial Grants	Municipal Appropriations	Other Board Revenues*	Total Funding	Cost Per Pupil
1978	11,101	194,070	247,727,148	65,699,052	9,296,900	322,723,100	1,663
1979	11,072	189,258	269,852,270	69,728,230	12,070,200	351,650,700	1,858
1980	11,016	185,585	292,324,141	82,810,059	15,211,100	390,345,300	2,103
1981	11,000	181,685	352,634,185	82,461,345	13,356,832	448,452,362	2,468
1982	10,961	179,302	410,045,141	80,364,343	13,367,676	503,777,160	2,810
1983	10,770	177,240	447,930,131	85,679,306	20,474,781	554,084,218	3,126
1984	10,814	175,182	468,628,745	88,593,439	20,451,694	577,673,878	3,298
1985	10,751	172,614	490,848,165	96,924,005	22,685,653	610,457,823	3,537
1986	10,664	170,868	501,952,315	102,994,432	24,197,016	629,143,763	3,682

* Other Board Revenues include board-generated operating revenue (e.g. rental of facilities, investment income), federal revenue (e.g. DND payments, French programs), tax rebates, payments from other boards, and revenue from reserves or prior surplus.

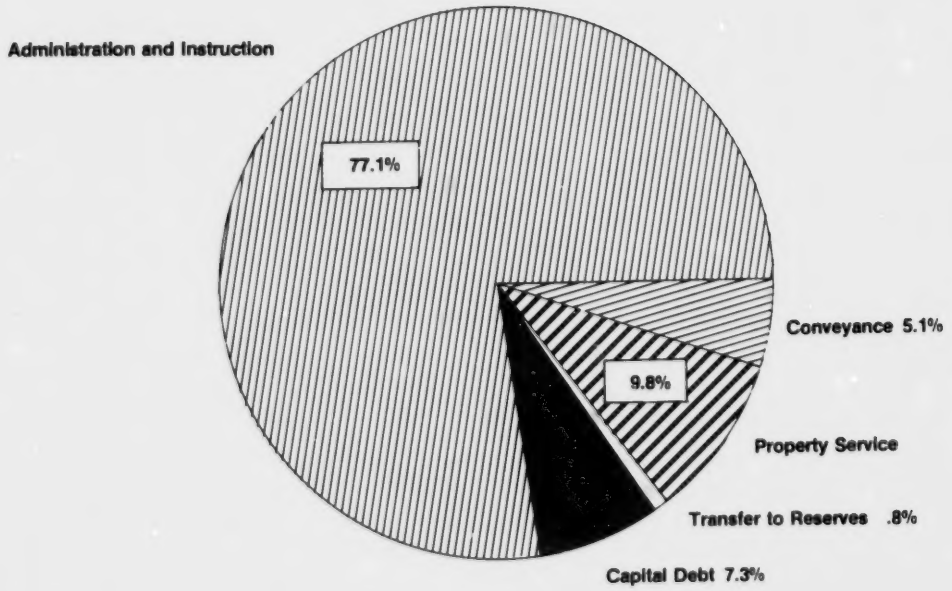
Does not include the eleven regional vocational school boards.

SCHOOL BOARD FUNDING
1974-1986



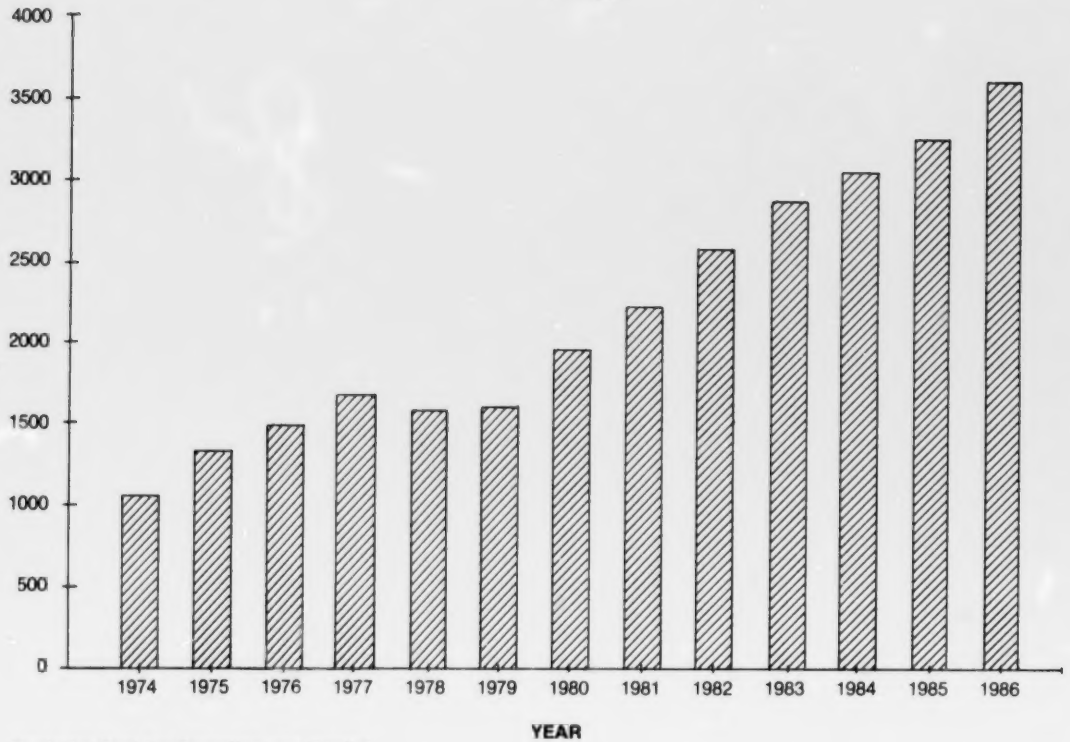
*"Other" includes board-generated revenue, federal revenue, tax rebates, income from other boards, and revenue from reserves.

SCHOOL BOARD EXPENDITURES
1986 CALENDAR YEAR



Total School Board Expenditures $629,143,763

TOTAL EXPENDITURES PER PUPIL*
1974-1986



*Includes Cost for Operating and Capital

DEPARTMENT OF EDUCATION
SUMMARY OF OPERATING EXPENDITURES
FOR THE PERIOD APRIL 1, 1986, TO MARCH 31, 1987

Senior Management		$ 718,248
Finance and Budgeting		2,514,222
Teachers Pensions		27,263,238
Grants and Assistance		
School Book Bureau	$ 5,253,412	
School Board Grants	518,324,761	
Student Aid	9,442,766	533,020,939
Curriculum Development		5,407,264
Education Resource Services		12,603,476
School Planning and Inspection		1,332,653
Program Services		661,464
Nova Scotia Teachers College — Less chargeable to University Assistance Vote		1,710
Total Expenditures		$583,519,794

* All figures are net of revenue and less chargeables

NOTE: In addition to operating expenditures, total capital grants to district school boards and capital expenditures by the Department of Education were $8,627,104.

ENROLMENTS BY AGE, GRADE AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1986

KEY

Elem — Elementary
SR — Senior
TMH — Trainable Mentally Handicapped
BE — Business Education
JR — Junior
EMH — Educable Mentally Handicaped
Other — Other Special Education
VOC — Vocational programs operated by district school boards

Grade		5 and Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 and Over		Total
Primary	M	5,966	369	9															M	6,344
	F	5,929	205	4															F	6,138
	T	11,895	574	13															T	12,482
Grade 1	M	21	5,758	692	34	2													M	6,507
	F	46	5,624	395	18	1	1												F	6,085
	T	67	11,382	1,087	52	3	1												T	12,592
Grade 2	M		65	5,323	874	56	1												M	6,319
	F		86	5,383	481	24	1												F	5,975
	T		151	10,706	1,355	80	2												T	12,294
Grade 3	M			95	4,964	1057	97	7											M	6,220
	F		1	111	5175	529	52	8											F	5,876
	T		1	206	10,139	1,586	149	15											T	12,096
Grade 4	M				126	4,884	1,116	174	4	1									M	6,305
	F			1	143	5,076	646	74	3	1									F	5,944
	T			1	269	9,960	1,762	248	7	2									T	12,249
Grade 5	M				1	137	5,101	1,270	265	25	4								M	6,803
	F				1	190	5,150	648	119	8	2	1							F	6,119
	T				2	327	10,2..	1,918	384	33	6	1							T	12,922
Grade 6	M					1	200	4,777	1,238	326	27	4							M	6,573
	F					1	202	5,007	787	160	14	2							F	6,173
	T					2	402	9,784	2,025	486	41	6							T	12,746

ENROLMENTS BY AGE, GRADE AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1986
(Continued)

Grade		5 and Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 and Over		Total
Elem EMH	M		3	16	29	51	61	63	79	40	10	2	1				1		M	356
	F	1	1	13	24	28	47	37	44	14	2		1		1				F	213
	T	1	4	29	53	79	108	100	123	54	12	2	2		1		1		T	569
Elem TMH	M	4	8	9	13	17	24	22	10	9	4	6	3	3	2	4	2	1	M	141
	F	5	8	13	7	5	10	20	11	11	5	8	3	5	2	6	2	1	F	122
	T	9	16	22	20	22	34	42	21	20	9	14	6	8	4	10	4	2	T	263
Elem Other	M	10	11	24	20	23	38	36	38	8	5	1	4	1	2		1	6	M	228
	F	5	10	18	16	8	14	11	8	6	2	1	2	2	1				F	104
	T	15	21	42	36	31	52	47	46	14	7	2	6	3	3		1	6	T	332
Elementary	M	6,001	6,214	6,168	6,061	6,228	6,638	6,349	1,634	409	50	13	8	4	4	4	4	7	M	45,796
Sub-total	F	5,986	5,935	5,938	5,865	5,862	6,123	5,805	972	200	25	12	6	7	4	6	2	1	F	42,749
	T	11,987	12,149	12,106	11,926	12,090	12,761	12,154	2,606	609	75	25	14	11	8	10	6	8	T	88,545
Grade 7	M							154	4,605	1,634	717	172	27	1	1		1		M	7,312
	F						2	217	4,960	1,085	315	74	12	2	2				F	6,669
	T						2	371	9,565	2,719	1,032	246	39	3	3		1		T	13,981
Grade 8	M							13	237	4,372	1,657	852	207	34	6	2	1		M	7,381
	F							2	221	4,946	1,128	457	93	23	5				F	6,875
	T							15	458	9,318	2,785	1,309	300	57	11	2	1		T	14,256
Grade 9	M								5	200	4,108	1,707	783	220	51	8	3	1	M	7,086
	F									248	4,772	1,231	495	147	32	5	3	2	F	6,935
	T								5	448	8,880	2,938	1,278	367	83	13	6	3	T	14,021

ENROLMENTS BY AGE, GRADE AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1986
(Continued)

Grade		5 and Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 and Over		Total
Jr EMH	M					1		1	7	40	45	49	25	16	9	4	2		M	199
	F				1	1	2	2	4	20	28	26	15	10	5	2	1		F	117
	T				1	2	2	3	11	60	73	75	40	26	14	6	3		T	316
Jr TMH	M						2	2	2	13	16	13	14	8	8	12	8		M	98
	F							1	6	5	12	7	9	5	4	6	8		F	63
	T						2	3	8	18	28	20	23	13	12	18	16		T	161
Jr Other	M						1	1	20	43	57	69	29	9	5		1		M	235
	F								2	19	24	22	13	5	2	2	1		F	90
	T						1	1	22	62	81	91	42	14	7	2	2		T	325
Jr Level Sub-total	M					1	3	171	4,876	6,302	6,600	2,862	1,085	288	80	26	16	1	M	22,311
	F				1	1	4	222	5,193	6,323	6,279	1,817	637	132	50	15	13	2	F	20,749
	T				1	2	7	393	10,069	12,625	12,879	4,679	1,722	480	130	41	29	3	T	43,060
Grade 10	M									1	227	4,108	1,673	845	322	98	25	8	M	7,307
	F									1	289	4,802	1,281	534	164	31	9	16	F	7,127
	T									2	516	8,910	2,954	1,379	486	129	34	24	T	14,434
Grade 11	M										2	202	3,495	1,321	548	179	44	15	M	5,806
	F										1	258	4,172	1,035	344	118	30	33	F	5,991
	T										3	460	7,667	2,356	892	297	74	48	T	11,797
Grade 12	M											4	186	3,051	1,388	500	151	56	M	5,336
	F										1	2	316	3,730	1,088	310	103	86	F	5,636
	T										1	6	502	6,781	2,476	810	254	142	T	10,972
Sr BUS ED	M													2	4	2	1		M	9
	F												2	37	65	32	12	31	F	179
	T												2	39	69	34	13	31	T	188

ENROLMENTS BY AGE, GRADE AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1986
(Continued)

Grade		5 and Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 and Over		Total
Sr EMH	M										3	6	30	36	23	16	9		M	123
	F											4	22	21	11	15	4	2	F	79
	T										3	10	52	57	34	31	13	2	T	202
Sr TMH	M									1	1	4	1	2	8	10	5	2	M	34
	F										1	3	4	1	7	4	6	1	F	27
	T									1	2	7	5	3	15	14	11	3	T	61
Sr Other	M									1	1	5	22	23	12	4	5	6	M	79
	F									1		2	8	10	11	3	1	2	F	38
	T									2	1	7	30	33	23	7	6	8	T	117
Sr Level	M									3	234	4,329	5,407	5,280	2,305	809	240	87	M	18,694
Sub-total	F									2	292	5,071	5,805	5,368	1,690	513	165	171	F	19,077
	T									5	526	9,400	11,212	10,648	3,995	1,322	405	258	T	37,771
VOC 1	M											23	41	55	103	97	51	50	M	420
	F											5	15	33	96	66	33	61	F	309
	T											28	56	88	199	163	84	111	T	729
VOC 2	M											1	27	34	41	78	36	51	M	268
	F											1	34	15	19	18	10	15	F	112
	T											2	61	49	60	96	46	66	T	380
VOC 3	M													24	28	16	4	3	M	75
	F												2	20	14	8	5	3	F	52
	T												2	44	42	24	9	6	T	127
VOC Other	M										1	23	85	49	18	4	1		M	181
	F											15	30	24	3		2	1	F	75
	T										1	38	115	73	21	4	3	1	T	256

ENROLMENTS BY AGE, GRADE AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1986
(Continued)

Grade		5 and Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 and Over		Total
District Vocational (Excluding Regional Voc)																				
Sub-total	M										1	47	153	162	190	195	92	104	M	944
	F											21	81	92	132	92	50	80	F	548
	T										1	68	234	254	322	287	142	184	T	1,492
District Boards																				
Total	M	6,001	6,214	6,168	6,061	6,229	6,641	6,520	6,510	6,714	6,885	7,251	6,653	5,734	2,579	1,034	352	199	M	87,745
	F	5,986	5,935	5,938	5,866	5,863	6,127	6,027	6,165	6,525	6,596	6,921	6,529	5,659	1,876	626	230	254	F	83,123
	T	11,987	12,149	12,106	11,927	12,092	12,768	12,547	12,675	13,239	13,481	14,172	13,182	11,393	4,455	1,660	582	453	T	170,868
VOC 1	M																			
	F											4	51	154	448	436	252	291	M	1,636
	T											1	19	69	389	252	141	376	F	1,247
												5	70	223	837	688	393	667	T	2,883
VOC 2	M																			
	F												2	37	98	321	211	235	M	904
	T												1	2	27	121	61	63	F	275
													3	39	125	442	272	298	T	1,179
VOC Other	M																			
	F											17	51	40	18	4	1	1	M	132
	T													1			1		F	2
												17	51	41	18	4	2	1	T	134
Regional Vocational																				
Sub-total	M											21	104	231	564	761	464	527	M	2,672
	F											1	20	72	416	373	203	439	F	1,524
	T											22	124	303	980	1,134	667	966	T	4,196
Provincial	M	6,001	6,214	6,168	6,061	6,229	6,641	6,520	6,510	6,714	6,885	7,272	6,757	5,965	3,143	1,795	816	726	M	90,417
Grand Total	F	5,986	5,935	5,938	5,866	5,863	6,127	6,027	6,165	6,525	6,596	6,922	6,549	5,731	2,292	999	433	693	F	84,647
	T	11,987	12,149	12,106	11,927	12,092	12,768	12,547	12,675	13,239	13,481	14,194	13,306	11,696	5,435	2,794	1,249	1,419	T	175,064

ENROLMENTS BY SCHOOL BOARD*
1977/79 To 1986/87

SCHOOL BOARD	77/78	78/79	79/80	80/81	81/82	82/83	83/84	84/85	85/86	86/87
Annapolis	5,016	4,845	4,694	4,643	4,501	4,496	4,396	4,327	4,219	4,220
Antigonish	5,048	4,927	4,911	4,901	4,900	4,842	4,861	4,826	4,783	4,753
Cape Breton	25,639	24,887	24,119	23,441	22,909	22,371	21,928	21,323	20,768	20,306
Clare-Argyle	4,061	3,982	3,946	3,848	3,722	3,665	3,554	3,459	3,344	3,285
Colchester-E Hants	14,143	13,894	13,573	13,268	13,266	13,257	13,245	13,232	13,210	13,284
Cumberland	7,973	7,858	7,641	7,418	7,238	7,167	6,983	6,843	6,641	6,546
Dartmouth	15,889	15,142	14,298	13,620	13,073	12,541	12,088	11,823	11,443	11,389
Digby	2,837	2,757	2,686	2,664	2,600	2,533	2,526	2,501	2,477	2,326
Guysborough	3,189	3,120	3,071	3,050	3,048	2,989	2,951	2,878	2,740	2,708
Halifax	20,811	19,788	18,798	18,156	17,348	16,902	16,540	15,958	15,430	14,929
Halifax Co-Bedford	26,512	27,225	27,262	27,239	27,220	27,363	27608	27,924	28,186	28,607
Hants West	4,172	4,080	3,916	3,884	3,701	3,616	3,605	3,648	3,714	3,661
Inverness	5,716	5,736	5,673	5,561	5,440	5,383	5,194	5,150	5,070	4,942
Kings	12,276	11,843	11,476	11,334	11,107	11,060	11,165	11,060	11,141	11,060
Lunenburg	9,075	9,051	8,943	8,837	8,752	8,714	8,644	8,689	8,537	8,520
Northside-Victoria	9,512	9,173	8,891	8,701	8,445	8,203	7,950	7,759	7,596	7,406
Pictou	11,525	11,377	11,303	11,352	11,153	11,138	11,080	11,008	10,831	10,746
Queens	2,970	2,938	2,875	2,786	2,728	2,696	2,704	2,670	2,648	2,607
Richmond	3,498	3,427	3,361	3,250	3,104	3,055	3,034	2,961	2,855	2,719
Shelburne	3,879	3,825	3,677	3,624	3,588	3,547	3,477	3,457	3,380	3,274
Yarmouth	3,932	3,863	3,820	3,690	3,545	3,486	3,435	3,418	3,337	3,318
Hantsport	346	332	324	318	297	278	272	268	264	262
Provincial Totals	198,019	194,070	189,258	185,585	181,685	179,302	177,240	175,182	172,614	170,868

* For the years prior to the formation of the district school boards, the figures represent the total enrolments in the areas now served by the district boards.

PUPIL/TEACHER RATIO BY SCHOOL BOARD*
1980/81 to 1986/87

School Board	80/81	81/82	82/83	83/84	84/85	85/86	86/87
Annapolis	17.2	16.5	16.6	16.4	16.1	16.6	17.5
Antigonish	17.6	17.6	17.7	17.9	17.4	17.3	17.0
Cape Breton	17.6	17.3	17.2	17.4	16.9	16.7	16.9
Clare-Argyle	17.0	16.5	16.0	15.4	15.1	15.6	15.3
Colchester-E Hants	18.5	18.5	18.0	17.9	17.7	17.7	17.7
Cumberland	17.2	16.8	17.0	17.5	17.2	17.0	16.8
Dartmouth	16.3	16.2	15.3	15.0	15.2	15.1	15.5
Digby	16.5	16.0	15.8	16.4	16.5	16.2	15.3
Guysborough	16.2	16.2	16.0	15.5	15.2	15.2	15.5
Halifax	14.1	13.8	13.7	14.1	13.5	13.4	13.3
Halifax Co-Bedford	17.0	16.7	16.9	17.4	17.2	16.9	16.9
Hants West	18.6	18.2	17.3	17.5	18.0	17.8	17.2
Inverness	16.1	15.4	15.9	16.0	16.0	16.3	16.2
Kings	17.2	17.1	16.9	17.0	16.7	16.8	16.8
Lunenburg	18.5	18.1	17.7	17.6	17.8	17.4	17.8
Northside-Victoria	17.3	17.2	16.7	16.8	16.7	16.5	16.5
Pictou	19.6	19.3	18.0	17.6	17.3	17.4	17.1
Queens	18.6	18.6	18.0	17.4	17.4	16.7	16.7
Richmond	14.8	14.1	14.5	15.6	15.6	15.2	14.5
Shelburne	17.7	17.7	17.7	17.2	17.9	17.4	17.1
Yarmouth	18.3	17.8	16.9	17.4	17.5	17.2	17.9
Hantsport	17.3	18.1	15.1	15.6	15.4	15.2	15.1
Provincial Totals	17.0	16.8	16.5	16.7	16.5	16.4	16.4

* For the years prior to the formation of the district school boards, the figures represent the ratios in the areas now served by district boards.

TEACHERS BY CERTIFICATE AND YEARS OF SERVICE*
September 30, 1986

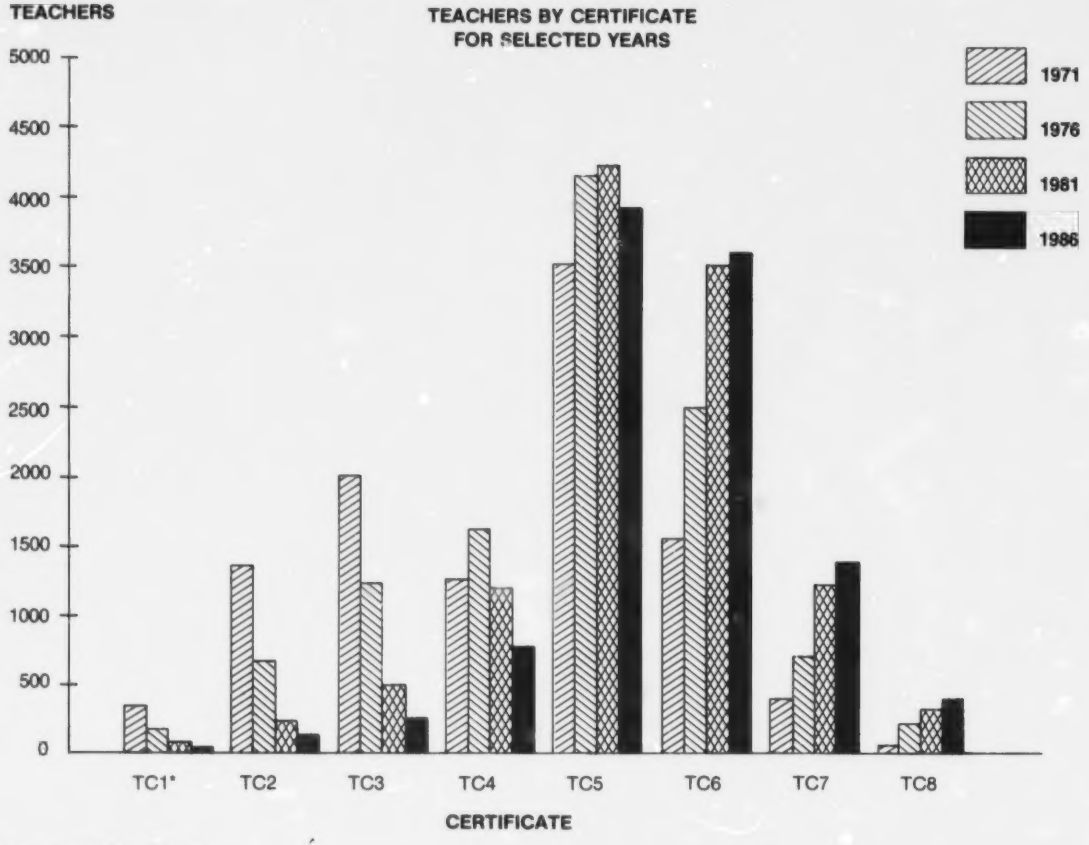
Certificate	Total	1	2	3	4	5	6	7	8	9	10	Max
TC8	417	1				1	1		3	5	4	402
TC7	1,374		2	2	5	7	10	4	29	29	34	1,252
TC6	3,661	7	11	16	22	47	74	95	96	144	155	2,994
TC5	3,934	118	138	132	95	128	154	156	172	192	175	2,474
TC4	787	11	22	18	24	33	37	37	33	34		538
TC3	249				1	1	2	2	3			240
TC2	124											124
TC1	13											13
VTC IV	29					1				3		25
VTC III	16					1			2	2	1	10
VTC II	53			2	2	3	3	3	1	4	1	34
VTC I	4		1	1								2
VTP A	3	2										1
Total	10,664	139	174	171	149	222	281	297	339	413	370	8,109

* Excludes the following teaching positions: sabbatical leave, Department of National Defence, substitutes, Term B and C, leave of absence, educational leave, and sick leave.

TEACHERS BY CERTIFICATE BY BOARD FOR THE 86/87 SCHOOL YEAR

School Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Permit	EXCH AGMT*	VTC4	VTC3	VTC2	VTC1	VPA
Annapolis	247	3	15	79	107	27	8	5	1		2					
Antigonish	280	12	52	97	88	21	7	2						1		
Cape Breton	1,218	85	187	507	338	59	27	15								
Clare-Argyle	218	3	31	66	89	17	7	5								
Col.-E Hants	763	22	76	247	296	75	13	2	1			13	5	10	1	2
Cumberland	403	5	24	103	191	50	15	11			1			3		
Dartmouth	762	38	123	298	250	38	11		1		1			2		
Digby	154	2	13	42	74	18	3	1						1		
Guysborough	177	2	20	58	67	20	3	4					1	2		
Hfx. City	1,149	99	224	412	352	33	14	4	2		2		3	4		
Hfx. Co.-Bed.	1,733	57	235	600	691	91	35	14	2		1	1	3	2		1
Hants West	221	4	23	66	102	17	3	5	1							
Inverness	307	8	28	117	117	20	8	8			1					
Kings	694	15	79	226	268	56	8	8	1		1	9	2	19		2
Lunenburg	497	9	48	161	188	62	25	2	1		1					
N'Side-Vic.	453	19	56	155	131	36	22	15	2		1	6	2	7	1	
Pictou	637	19	63	200	273	58	13	10			1					
Queens	162	4	16	36	78	23	3	2								
Richmond	188	5	26	66	62	15	9	4							1	
Shelburne	193	5	18	44	89	24	7	5						1		
Yarmouth	189	1	11	64	76	26	8	2	1							
Hantsport	19		2	7	7	3										
Provincial Totals	10,664	417	1,370	3,651	3,934	789	249	124	13		12	29	16	52	3	5

* EXCH AGMT — These are teachers on exchange arrangements.



*Includes TC1 and under

NUMBER OF TEACHERS BY BOARD*
1977/78 to 1986/87

School Board	77/78	78/79	79/80	80/81	81/82	82/83	83/84	84/85	85/86	86/87
Annapolis	283	280	284	280	279	274	274	273	261	247
Antigonish	276	277	280	279	279	274	271	277	277	280
Cape Breton	1,367	1,370	1,354	1,335	1,330	1,301	1,265	1,274	1,253	1,218
Clare-Argyle	236	233	235	227	228	231	233	229	216	218
Colchester-E Hants	722	718	725	720	728	743	748	754	753	763
Cumberland	445	439	439	438	438	425	404	407	400	403
Dartmouth	911	895	884	848	827	838	825	801	780	762
Digby	163	164	159	161	163	160	154	152	153	154
Guysborough	190	191	188	188	189	187	190	190	182	177
Halifax	1,379	1,382	1,335	1,319	1,274	1,254	1,194	1,206	1,178	1,149
Halifax Co-Bedford	1,467	1,563	1,573	1,623	1,661	1,642	1,606	1,654	1,707	1,733
Hants West	225	213	215	209	205	210	207	205	214	221
Inverness	350	348	349	351	357	343	327	324	315	307
Kings	653	669	671	664	664	667	675	695	698	694
Lunenburg	464	463	477	486	494	505	506	503	507	497
Northside-Victoria	543	524	509	505	492	491	477	468	465	453
Pictou	584	569	588	584	593	625	639	645	631	637
Queens	148	149	151	150	149	151	157	155	159	162
Richmond	219	222	224	220	221	211	194	190	188	188
Shelburne	209	207	208	207	205	201	204	195	196	193
Yarmouth	193	206	206	203	206	209	202	199	200	189
Hantsport	20	19	18	19	18	19	18	18	18	19
Provincial Totals	11,047	11,101	11,072	11,016	11,000	10,961	10,770	10,814	10,751	10,664

* For the years prior to the formation of the district school boards, the figures represent the number of teachers in the areas now served by the district boards.

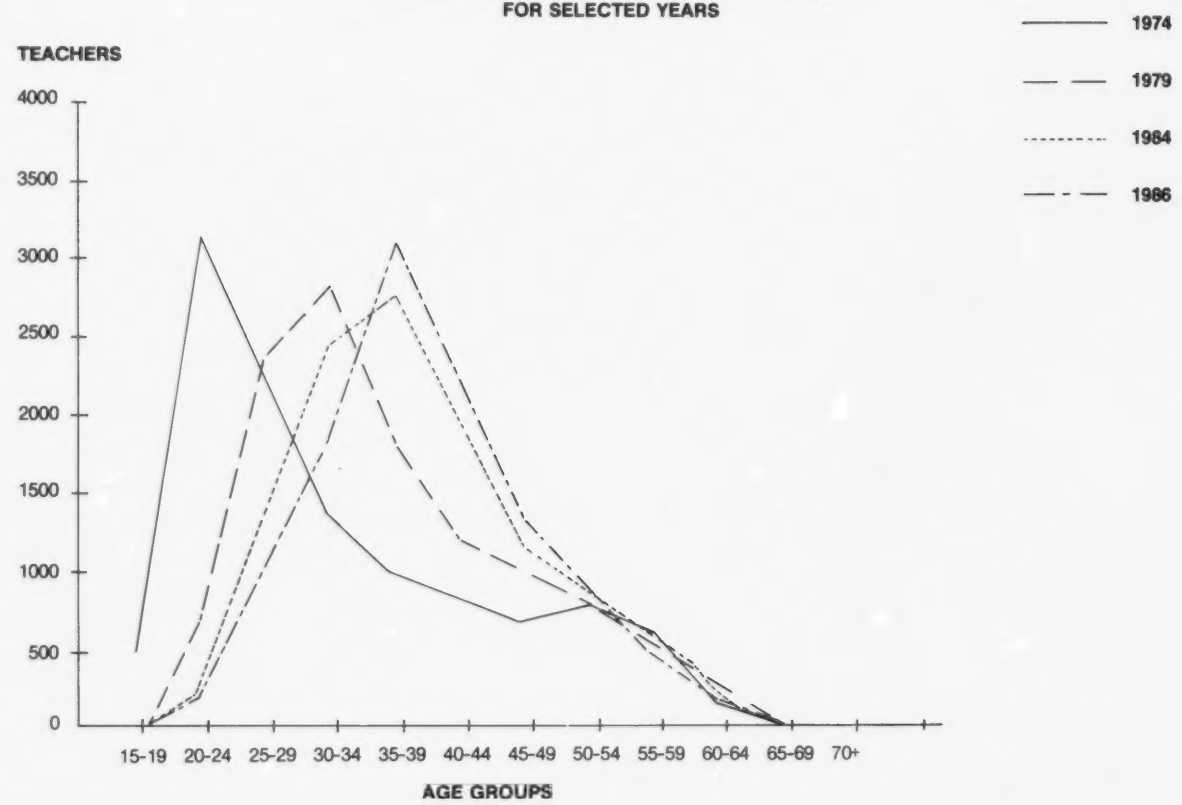
TEACHERS BY CERTIFICATE, AGE AND SEX FOR SCHOOL YEAR 86/87

Certificate		Total	20 To 24	25 To 29	30 To 34	35 To 39	40 To 44	45 To 49	50 To 54	55 To 59	60 To 64	65 To 69	70 and Over
TC8	Male	308			8	62	107	79	35	12	5		
	Female	109		1	7	21	15	22	22	14	7		
	Total	417		1	15	83	122	101	57	26	12		
TC7	Male	931		3	68	287	277	156	94	35	11		
	Female	439		11	65	138	73	61	45	35	11		
	Total	1,370		14	133	425	350	217	139	70	22		
TC6	Male	1,805		48	279	633	453	225	99	54	14		
	Female	1,846	1	131	363	596	308	179	155	84	28	1	
	Total	3,651	1	179	642	1,229	761	404	254	138	42	1	
TC5	Male	1,114	36	149	260	342	178	74	48	19	8		
	Female	2,820	121	426	608	712	384	265	184	93	25	2	
	Total	3,934	157	575	868	1,054	562	339	232	112	33	2	
TC4	Male	126	7	33	23	28	17	10	4	3	1		
	Female	663	22	107	134	138	96	73	58	24	11		
	Total	789	29	140	157	166	113	83	62	27	12		
TC3	Male	28			2	9	9	3		4	1		
	Female	221			12	61	43	51	34	14	6		
	Total	249			14	70	52	54	34	18	7		
TC2	Male	2					1	1					
	Female	122				2	24	32	41	19	4		
	Total	124				2	25	33	41	19	4		

TEACHERS BY CERTIFICATE, AGE AND SEX FOR SCHOOL YEAR 86/87 (Continued)

Certificate		Total	20 To 24	25 To 29	30 To 34	35 To 39	40 To 44	45 To 49	50 To 54	55 To 59	60 To 64	65 To 69	70 and Over
TC1	Male												
	Female	13					1		4	6	2		
	Total	13					1		4	6	2		
Exchange	Male	3				2	1						
	Female	9		1	3	2	2		1				
	Total	12		1	3	4	3		1				
VTC IV	Male	24			1	1	2	9	8	1	2		
	Female	5					1	2		1	1		
	Total	29			1	1	3	11	8	2	3		
VTC III	Male	15				2	3	3	4	2	1		
	Female	1								1			
	Total	16				2	3	3	4	3	1		
VTC II	Male	46			3	6	11	11	9	3	3		
	Female	6			1	2				2	1		
	Total	52			4	8	11	11	9	5	4		
VTC I	Male	4					2		1		1		
	Female												
	Total	4					2		1		1		
VTP A	Male	4				3					1		
	Female												
	Total	4				3					1		
Total	Male	4,410	43	233	644	1,375	1,061	571	302	133	48		
	Female	6,254	144	677	1,193	1,672	947	685	544	293	96	3	
	Total	10,664	187	910	1,837	3,047	2,008	1,256	846	426	144	3	

AGE DISTRIBUTION OF NOVA SCOTIA TEACHERS FOR SELECTED YEARS



Note: Includes Teachers in Regional Vocational Schools

TEACHERS BY LEVELS TAUGHT AND CERTIFICATE FOR SCHOOL YEAR 86/87

Single Level[1]	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Permit	EXCH AGMT	VTC4	VTC3	VTC2	VTC1	VPA
Elementary	5,289	75	387	1,652	2,293	575	181	104	13		9					
Junior	3,305	104	401	1,211	1,277	214	70	16			1		2	8	1	
Senior	2,557	136	419	1,009	833	87	30	6			2	6	7	19	2	1
Vocational	6			1	4											1
Multi-Level																
Elementary-Junior	496	16	49	173	203	47	8									
Elementary-Senior	116	6	18	38	41	9	3	1								
Junior-Senior	879	19	88	332	362	47	25	2						3	1	
Board Super Personnel[2]	258	43	103	90	22											
School Super Personnel[3]	636	94	202	196	73	7	1	1				23	7	29	2	1
Total	10,664	417	1,372	3,652	3,933	787	249	124	13		12	29	16	53	4	3

[1]Level categories overlap, e g., a teacher of grades 6 and 7 is reported under the categories 7-9, 7-12, P-6, and P-12.
[2]e.g., chief education officer, curriculum supervisor, sub-system supervisor.
[3]e.g., non-teaching principal or vice-principal.

TEACHERS BY CERTIFICATE AND DEGREE
September 30, 1986
(excluding Regional Vocational Schools)

Certificate	Percentage with Degree
TC8	96.6
TC7	93.0
TC6	79.0
TC5	62.9
TC4	12.7
TC3	
TC2	
TC1	
VTC IV	27.6
VTC III	
VTC II	
VTC I	
VTP A	33.3
Total	67.2

RATIO OF ADMINISTRATORS, SPECIALISTS AND REGULAR TEACHERS PER STUDENT
SEPTEMBER 30, 1986

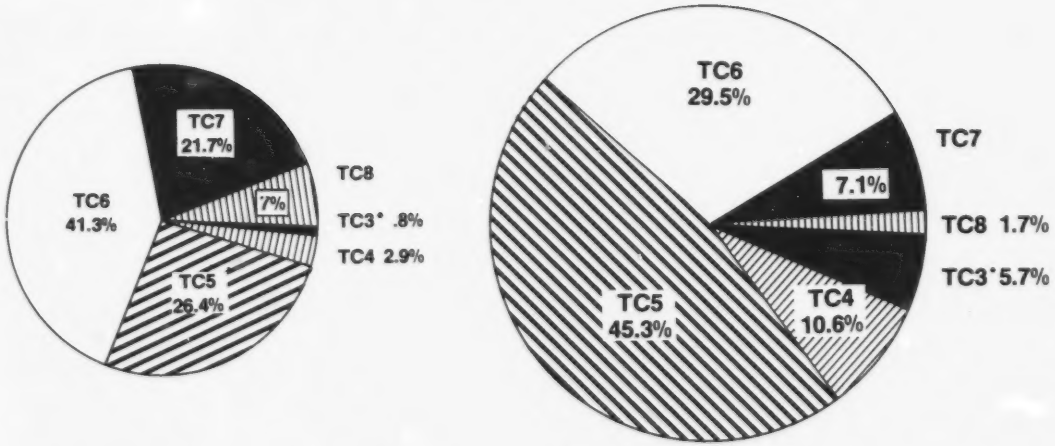
District	Administration			Special Subjects			Special Education			Regular			Total	
	No.	%	PTR	No.	%	PTR	No.	%	PTR	No.	%	PTR	No.	PTR
Annapolis	26.0	10.8	162.3	40.7	16.8	103.7	16.0	6.6	263.8	159.1	65.8	26.5	241.8	17.5
Antigonish	37.0	13.2	128.5	45.0	16.1	105.6	17.0	6.1	279.6	181.0	64.6	26.3	280.0	17.0
Cape Breton	149.0	12.4	136.3	187.0	15.5	108.6	74.5	6.2	272.6	792.3	65.9	25.6	1202.8	16.9
Clare/Argyle	17.0	8.0	193.2	24.9	11.7	131.9	14.0	6.6	234.6	157.5	73.8	20.9	213.4	15.4
Colchester-E. Hants	80.0	10.6	166.1	153.1	20.4	86.8	46.0	6.1	288.8	473.0	62.9	28.1	752.1	17.7
Cumberland	40.0	10.2	163.7	73.5	18.8	89.1	25.0	6.4	261.8	252.0	64.5	26.0	390.5	16.8
Dartmouth	87.0	11.8	130.9	136.3	18.5	83.6	60.1	8.2	189.5	453.4	61.5	25.1	736.8	15.5
Digby	16.0	10.5	145.4	20.5	13.5	113.5	14.0	9.2	166.1	101.5	66.8	22.9	152.0	15.3
Guysborough	27.0	15.4	100.3	32.5	18.5	83.3	9.5	5.4	285.1	106.5	60.7	25.4	175.5	15.4
Halifax	136.0	12.1	109.8	220.4	19.7	67.7	97.2	8.7	153.6	666.4	59.5	22.4	1120.0	13.3
Halifax Co.-Bedford	227.5	13.5	125.7	305.1	18.1	93.8	108.0	6.4	264.9	1046.8	62.0	27.3	1687.4	17.0
Hants West	20.0	9.4	183.1	38.9	18.2	94.1	15.2	7.1	240.9	139.5	65.3	26.2	213.6	17.1
Inverness	31.0	10.1	159.4	42.0	13.7	117.7	13.0	4.3	380.2	219.5	71.8	22.5	305.5	16.2
Kings	60.0	9.2	184.3	133.0	20.3	83.2	42.5	6.5	260.2	420.2	64.1	26.3	655.7	16.9
Lunenburg	61.0	12.7	139.7	74.9	15.6	113.8	31.1	6.5	274.0	312.2	65.2	27.3	479.2	17.8
Northside-Victoria	51.0	11.4	145.2	86.5	19.3	85.6	25.8	5.8	287.1	284.5	63.5	26.0	447.8	16.5
Pictou	66.0	10.5	162.8	90.8	14.5	118.3	37.5	6.0	286.6	431.5	69.0	24.9	625.8	17.2
Queens	18.0	11.5	144.8	24.0	15.3	108.6	10.1	6.5	258.1	104.3	66.7	25.0	156.4	16.7
Richmond	26.0	13.8	104.6	27.0	14.4	100.7	10.0	5.3	271.9	125.0	66.5	21.8	188.0	14.5
Shelburne	23.0	12.0	142.3	27.5	14.4	119.1	13.0	6.8	251.8	127.6	66.8	25.7	191.1	17.1
Yarmouth	20.0	10.8	165.9	25.0	13.5	132.7	13.0	7.0	255.2	127.5	68.7	26.0	185.5	17.9
Hantsport	1.0	5.7	262.0	2.4	13.8	109.2	1.0	5.7	262.0	13.0	74.7	20.2	17.4	15.1
District Totals	1219.5	11.7	140.1	1811.0	17.4	94.4	693.5	6.7	246.4	6694.3	64.3	25.5	10418.3	16.4

Administration = Superintendent, Assistant Superintendent, Principal, Vice-Principal, Supervisor, Guidance Director, System Consultant, Education Administrator, and Department Head.

Regular = Regular Classroom, Permanent Substitute, Home Visit, and Continuing Education.

Special Subjects = Special Subject Teacher — Home Economics, Music, Art, Physical Education, Industrial.

DISTRIBUTION OF TEACHERS BY CERTIFICATE AND SEX
SEPTEMBER 30, 1986



*Includes TC2 and under

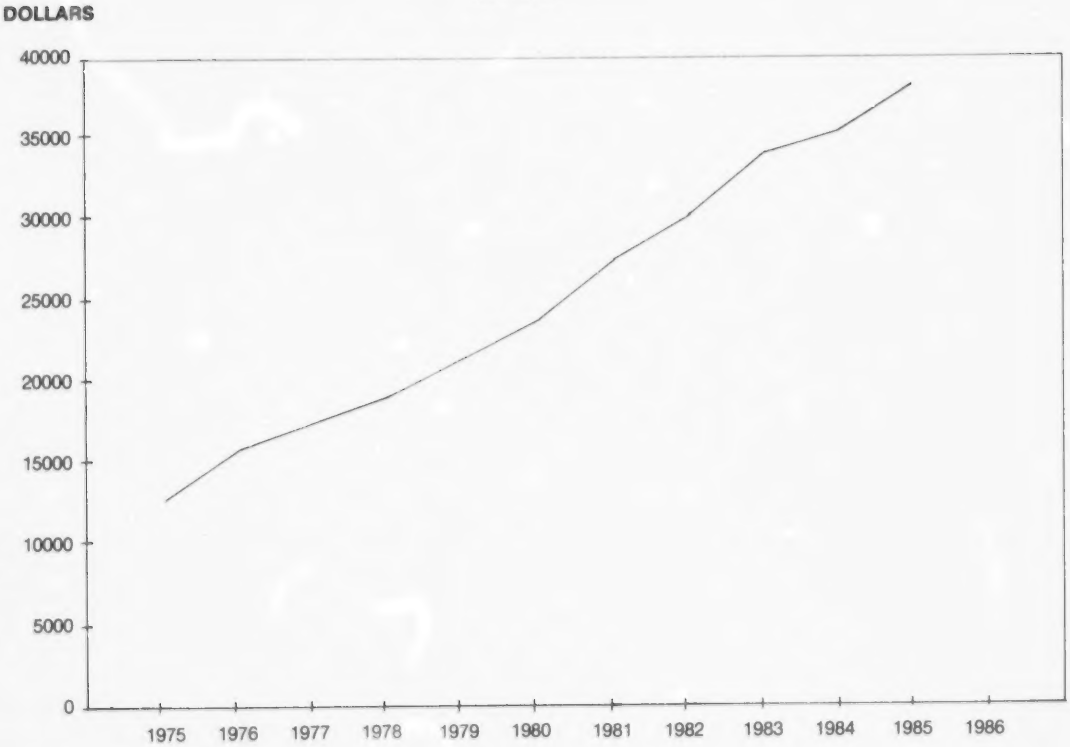
TEACHERS BY CERTIFICATE AND POSITION
SEPTEMBER 30, 1986

Position		Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Permit	EXCH AGMT	VTC4	VTC3	VTC2	VTC1
Superintendents and Assistants	Male	45	7	22	15	1										
	Female	2	1	1												
	Total	47	8	23	15	1										
Supervisors and System Consultants	Male	97	23	40	28	3	1							1	1	
	Female	57	6	17	23	11										
	Total	154	29	57	51	14	1							1	1	
Principals	Male	391	60	146	153	28	3						1			
	Female	113	6	28	30	29	12	6	2							
	Total	504	66	174	183	57	15	6	2				1			
Vice-Principals	Male	263	36	102	101	18	3	1					1		1	
	Female	77	1	23	30	20	2	1								
	Total	340	37	125	131	38	5	2					1		1	
Department Heads	Male	184	28	55	71	24	1						3	1	1	
	Female	66	7	13	23	19	2	1					1			
	Total	250	35	68	94	43	3	1					4	1	1	
Reg. Classroom Teachers and Specialists	Male	3,430	154	566	1,437	1,040	118	27	2			3	19	13	43	3
	Female	5,939	88	357	1,740	2,746	647	213	120	13		9	4	1	6	
	Total	9,369	242	923	3,177	3,701	765	240	122	13		12	23	14	49	3
Summary	Male	4,410	308	931	1,805	1,114	126	28	2			3	24	15	46	3
	Female	6,254	109	439	1,846	2,820	663	221	122	13		9	5	1	6	
	Total	10,664	417	1,370	3,651	3,934	789	249	124	13		12	29	16	52	3

AVERAGE SALARY PER TEACHER
SEPTEMBER 30, 1986

	Number of Teachers	Average Salary
Basic Salary	10,664	$38,707
Supervisory Allowance		$ 3,950
Total Salary and Allowance	10,664	$39,342

AVERAGE SALARY PER TEACHER
1975-1986



Based on Salary in effect in September of each year

NOVA SCOTIA TEACHERS' PENSION FUND
AUDITOR'S REPORT

To the Chairman and Members of the
Nova Scotia Teachers' Pension Commission and to
the Minister of Finance

I have examined the balance sheet of the Nova Scotia Teachers' Pension Fund as at March 31, 1987 and the statement of ccntinuity of fund for the year then ended. My examination was made in accordance with generally accepted auditing standards and accordingly, included such tests and other procedures as I considered necessary in the circumstances.

In my opinion, these financial statements present fairly the financial position of the Fund as at March 31, 1987 and the continuity of the Fund for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

O.P. Cormier, F.C.A.
Auditor General

Halifax, Nova Scotia
September 23, 1987

PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHER'S PENSION FUND
BALANCE SHEET
AS AT MARCH 31, 1987

Assets

	1987	1986
Cash	$ 1,021,224	$ 2,786,390
Accounts receivable	8,486,593	7,463,775
Accrued interest receivable	15,801,189	14,950,422
	25,309,006	25,200,587
Investments (Note 2)		
Short term deposits	82,407,336	28,381,545
Bonds and debentures	526,603,278	499,783,176
Mortgages	5,013,260	5,231,576
Common and preferred shares	17,878,117	13,685,881
	$631,901,991	$547,082,178
	$657,210,997	$572,282,765

Liabilities and Fund Balance

Accounts Payable	$ 5,018,507	$ 4,129,496
Fund Balance	652,192,490	568,153,269
	$657,210,997	$572,282,765

PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHERS' PENSION FUND
STATEMENT OF CONTINUITY OF FUND
FOR THE YEAR ENDED MARCH 31, 1987

		1987	1986
Balance, beginning of year		$ 568,153,269	$ 493,611,331
Add:	Teachers' contributions	27,004,026	26,685,258
	Government contributions	27,004,026	26,685,258
	Purchase of prior service	2,286,916	2,257,251
	Transfers from other pension funds	774,650	831,332
	Income earned on investment	65,296,786	58,689,718
	Amortization of discount and premium on investments	780,822	677,670
	Gain on sale of investments	8,906,451	76,216
		132,053,677	115,902,703
Deduct:	Expenses (Note 4)	418,544	226,624
	Pensions paid	45,394,857	39,508,861
	Refund of contributions	1,045,404	1,230,629
	Transfers to other pension funds	1,155,651	394,651
		48,014,456	41,360,765
Balance, end of year		$ 652,192,490	$ 568,153,269

PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHERS' PENSION FUND
NOTES TO FINANCIAL STATEMENTS
MARCH 31, 1987

1. Authority

Teachers in the Province are entitled to receive pension benefits pursuant to the provisions of a plan established under the Teachers' Pension Act. The operation of the plan is conducted within the Teachers' Pension Fund to which teacher and employer matching contributions and investment income are credited and payments to pensioners and terminating teachers are charged. The Teachers' Pension Fund is invested in federal, provincial, municipal and corporate securities and mortgages eligible for investment under the Provincial Finance Act.

2. Valuation of Investments

Bonds, debentures and coupons of $526,603,278 (1986, $499,783,176) are valued at cost adjusted for the amortization of discounts and premiums over the life of the related security. The face value and the market value of these bonds, debentures and coupons as at March 31, 1987, were $547,977,500 (1986, $522,390,250) and $598,731,650 (1986, $561,053,922) respectively. Generally, investments in bonds and debentures are made with the intention to retain them until maturity at which time they are redeemed for their face value, unless there is an opportunity to exchange or dispose of the bonds and debentures to obtain a higher yield.

Mortgages of $5,013,260 (1986, $5,231,576) are valued at their cost and face value adjusted for amortization of premiums and discounts over seven years.

Short term investments are shown at their cost and face value of $82,407,336 (1986, $28,381,545) at March 31, 1987.

Common and preferred shares are valued at a cost of $17,878,117 (1986, $13,685,881) at March 31, 1987. The market value of these equity investments at that date was $25,014,156 (1986, $26,038,565.)

3. Gains and Losses on Investments

Gains and losses on bonds and debentures exchanged to obtain a higher yield, as well as gains and losses on disposals of common and preferred shares, are credited or charged to income in the year of disposition.

4. Administration Expenses

The fund is charged with expenses of the Teachers' Pension Commission and expenses incurred on behalf of the Fund by the Trust and Debt Management section of the Department of Finance as follows:

	1987	1986
Salaries	$ 171,788	$ 147,813
Supplies and services	45,647	36,117
Professional and special services	176,433	35,343
Travel	10,457	6,996
Other	14,219	355
	$ 418,544	$ 226,624

5. Actuarial Valuation

The Teachers' Pension Act requires that the Fund be examined by an actuary every five years. The most recent valuation was made as of July 31, 1984, in an actuarial report received in October 1986.

The actuarial valuation indicates that at July 31, 1984, the Fund had actuarial liabilities with a present value of $1,127,125,000, assets of $456,652,000, and an unfunded actuarial liability of $670,473,000.

NUMBER OF TEACHER-PENSIONERS - JULY 31, 1987

1928 Act

	On Pension July 31, 1986	Number Added	Deaths	Resumed Teaching	Number on Pension July 31, 1987
Service Pensions — Men	—	—	—	—	—
Service Pensions — Women	6	—	2	—	4
Disability Pensions — Men	—	—	—	—	—
Disability Pensions — Women	18	—	—	—	18
Dependents' Pensions	2	—	—	—	2
Subtotal	26	—	2	—	24

1949 Act

	On Pension July 31, 1986	Number Added	Deaths	Resumed Teaching	Number on Pension July 31, 1987
Service Pensions — Men	501	64	10	—	555
Service Pensions — Women	2,005	116	51	—	2,070
Reduced Service — Men	74	9	6	—	77
Reduced Service — Women	789	16	17	—	788
Disability Pension (Total) — Men	60	7	1	—	66
Disability Pension (Total) — Women	136	8	8	—	136
Disability Pension (Partial) — Men	41	2	—	—	43
Disability Pension (Partial) — Women	154	2	5	—	151
Spouse's Pensions	397	52	8	—	441
Subtotal	4,157	276	106	—	4,327
Total	4,183	276	108	—	4,351

1928 Decrease 2
1949 Increase ... 170

NOVA SCOTIA SCHOOL BOOK BUREAU
STATEMENT OF OPERATIONS
FISCAL YEAR APRIL 1, 1986 TO MARCH 31, 1987

Disbursements		
Purchase of Learning Materials	$ 5,253,411	
Freight and Mailing Costs	80,900	
Salaries	283,371	
Other	51,123	
		$ 5,668,805
Receipts		
Sales		$ 389,802
Inventories		
On Hand, March 31, 1986		$ 550,268
On Hand, March 31, 1987		686,740
Quantity of Textbooks and Material Distributed		
Textbooks, Primary to Grade 6	580,000	
Textbooks, Grades 7-12	425,000	
Textbooks, Special Education/Specialized Reading	15,000	
Textbooks, Acadiennes	48,000	
Textbooks, Miscellaneous	28,000	
Career Education Materials	30,000	
		1,126,000
Journal, P & R Releases, Education N.S., Others	148,000	
Cumulative Record Cards, Manuals	16,000	
Teaching Guides, Curriculum Bulletins	28,000	
Miscellaneous	596,000	
		788,000

TOTAL ENROLMENTS — UNIVERSITIES AND COLLEGES

(Full-time students and the full-time equivalent of part-time students)

		1986-87	1985-86
(a)	**Degree Students**		
	Acadia University	3,718	3,735
	Atlantic School of Theology	118	122
	Dalhousie University	8,921	9,076
	Mount Saint Vincent University	2,945	2,769
	Nova Scotia Agricultural College	333	315
	Nova Scotia College of Art and Design	584	616
	Nova Scotia Teachers College	498	520
	Saint Francis Xavier University	2,667	2,670
	Saint Mary's University	4,056	3,985
	Technical University of Nova Scotia	1,260	1,119
	University College of Cape Breton	1,428	1,548
	Universite Sainte-Anne	308	290
	University of King's College	585	527
	Total — Degree Students	27,421	27,292
(b)	**Technical Students**		
	Nova Scotia Agricultural College	200	210
	N.S. College of Geographic Sciences	152	160
	University College of Cape Breton	548	589
	Total — Technical Students	900	959
	Total — All Students	28,321	28,251

ASSISTANCE TO UNIVERSITIES

Operating Grants	1986-87	1985-86
Acadia University	$ 17,187,290	$ 16,607,440
Atlantic School of Theology	693,210	672,650
Dalhousie University	74,033,450	72,672,760
Mount Saint Vincent University	8,701,280	8,258,790
Nova Scotia Agricultural College	3,367,680	3,129,200
Nova Scotia College of Art and Design	3,745,830	3,652,850
Nova Scotia College of Geographic Sciences	525,000	511,100
Nova Scotia Teachers College	4,653,290	4,670,829
Saint Francis Xavier University	12,671,520	12,515,610
Saint Mary's University	14,276,700	13,551,310
Technical University of Nova Scotia	12,493,460	12,978,175
University College of Cape Breton	9,913,970	9,556,390
Université Sainte-Anne	1,909,200	1,888,280
University of King's College	1,672,710	1,588,160
Joint Projects	33,550	29,500
Total — Operating Grants	165,878,140	162,283,044
Recoveries — Foreign Student Fees	2,230,793	(2,401,282)
Non-Space, Alterations and Renovations Grants	3,159,114	1,535,450
Atlantic Veterinary College	1,705,500	444,658
Less Chargeable to Canada — Nova Scotia Offshore Development Fund	—	(16,200,000)
University Debt Charges Grants	8,262,917	8,639,421
Recoveries From Other Atlantic Provinces	8,249,300	7,643,300
Capital Grants		
Atlantic Veterinary College	6,249,176	—
Maritime Forest Ranger School	2,038,946	1,945,175
Total — Capital Grants	$ 8,288,122	$ 1,945,175

STUDENT AID

	1986-87	1985-86	1984-85
Assistance Awarded			
Canada Student Loan	$ 41,551,342	$ 40,419,318	$36,613,000
Nova Scotia Bursary	9,442,766	10,219,499	9,197,845
Total Assistance	50,994,108	50,638,817	45,810,845
Students Assisted			
Canada Student Loan	14,122	14,340	12,396
Nova Scotia Bursary	7,028	7,548	7,454
Average Aid per Student			
Canada Student Loan	2,942	2,818	2,953
Nova Scotia Bursary	1,354	1,353	1,234
Average total aid per student	$ 3,616	$ 3,531	$ 3,695
Total Applications Received	15,916	15,844	14,730